DuraStar™ DS1910HF

Thermoplastic Polyester

Eastman Chemical Company

Message:

Durastar[™] DS1910HF polymer is a high flow grade of Durastar[™] that contains a mold release. Durastar[™] DS1910HF flow lengths are increased 20-40% relative to Durastar[™] DS1010 as shown by spiral flow testing. Other outstanding features of Durastar[™] are easily maintained such as excellent appearance and clarity, good physical properties, chemical resistance, and easy processing. This high flow product is especially suited for those applications utilizing thin-walled intricate tools. Under existing United States Food and Drug Administration (FDA) regulations, Durastar[™] DS1910HF may be used in food contact articles which comply with the specifications and conditions of use in 21 CFR 177.1240. This product is certified to ANSI/NSF Standard 51.

General Information		
UL YellowCard	E118289-220141	
Additive	Mold Release	
Features	Fast Molding Cycle	
	Food Contact Acceptable	
	Good Chemical Resistance	
	Good Impact Resistance	
	Good Mold Release	
	Good Processability	
	High Clarity	
	High Flow	
	Pleasing Surface Appearance	
Uses	Appliance Components	
	Appliances	
	Flooring Maintenance/Repair	
	Furniture	
	Household Goods	
	Sporting Goods	
	Stationary Supplies	
	Thin-walled Parts	
	Toys	
	Writing Instruments	
Agency Ratings	FDA 21 CFR 177.1240	
	NSF 51	
Appearance	Natural Color	
Forms	Pellets	
Processing Method	Injection Molding	

HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale, 23°C)107ASTM D785MechanicalNominal ValueUnitTest MethodTensile StrengthSolonMPaYield, 23°C430MPaTensile ElongationSolon%Yield, 23°C5.0%Break, 23°C1900MPaStrength (rield, 23°C)68.0MPaStrength (rield, 23°C)68.0MPaInsural Modulus (23°C)68.0MPaStrength (rield, 23°C)68.0MPaMotodulus (23°C)68.0MPaMotodulus (23°C)68.0MTMotodulus (23°C)68.0MTMotodulus (23°C)68.0MTMotodulus (23°C)8.0MSTMotodulus (23°C)8.0MSTMotodulus (23°C)8.0MSTMotodulus (23°C)8.0MSTMotodulus (23°C)8.0MSTMotodulus (23°C)8.0MSTMotodulus (23°C)8.0MSTMotodulus (23				
Water Absorption (23°C, 24 hr)0.15%ASTM 0570HardnessNominal ValueUnitTest MethodRockvell Hardness (R-Scale, 23°C)107Kath 0785MechanicalNominal ValueUnitTest MethodTestels ErengthS0.0MPaKath 0583Testels ErengthS0.0MPaKath 0583Testels ErengthS0.0MPaKath 0583Testels ErengthS0.0MPaKath 0503Testels ErengthS0.0MPaASTM 0583Yield, 23°CS0.0MPaASTM 0790Flexural Modulus (23°C)1900MPaASTM 0790Flexural Modulus (23°C)80.0MPaASTM 0790ImpactMoninal ValueUnitTest MethodNortched IropactKath 0100MraKath 025640°C40MraKath 025640°CNortched IropactSTM 0481240°CNo BreakJamKath 025640°CNo BreakJamKath 0376340°CNortched IropactSTM 0481240°CNortel IropactSTM 0481240°CNor	Specific Gravity	1.19	g/cm³	ASTM D792
HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale, 23°C)107ASTM D785MechanicalNominal ValueUnitTest MethodTensile StrengthSolonMPaYield, 23°C43.0MPaTensile ElongationSolon%Yield, 23°C5.0%Break, 23°C1900MPaBreak, 23°C68.0MPaFlexural Modulus (24°C)68.0MPaStrength (vield, 23°C)68.0MPaMotodulus (24°C)68.0MPaMotodulus (24°C)68.0MPaMotodulus (24°C)68.0MPaMotodulus (24°C)68.0MPaMotodulus (24°C)68.0MPaMotodulus (24°C)68.0MPaMotodulus (24°C)68.0MPaMotodulus (24°C)68.0MPaMotodulus (24°C)68.0MPaMotodulus (24°C)68.0MraMotodulus (24°C)68.0MraMotodulus (24°C)Norinal ValueJraMotodulus (24°C)No BreakStrim D36340°CNo BreakI23°C, Energy at Peak Load38.0J40°C, Energy at Peak Load68.0C40°C, Energy at Peak Load68.0C40°C, Energy at Peak Load68.0C40°C, Motinal ValueNorinal ValueNorinal ValueMotodulus (1504)70.0C40°C, Motinal ValueNorinal ValueNorinal ValueMo	Molding Shrinkage - Flow	0.30	%	ASTM D955
Reckwell Hardness (R-Scale, 23°C) 107 ASTM D785 Mochanical Nominal Value Unit Test Method Tendie Strength	Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
MechanicalNominal ValueUnitTest MethodTensile Strength50.0MPaBreak, 23°C50.0MPaBreak, 23°C43.0MPaTensile Elongation50.0%Vield, 23°C50.0%Break, 23°C270.0%Break, 23°C900.0MPaASTM 0790Flexural Modulus (23°C)900.0MPaASTM 0790ImpactNominal ValueUnitTest MethodNotched Izod ImpactNominal ValueUnitTest Method-40°CAGTM 0790MpaASTM 0790Impact80.0MPaASTM 0256-40°CNoManalManalASTM 0256-40°CNo BreakJSTM 04812-40°CNo BreakSTM 04812-40°CNo BreakSTM 04812-40°CNo BreakJ-37°C80.0J-37°CNo BreakSTM 03763-37°C, Energy at Peak Load40.0J-40°C Astrogy at Peak Load60.0S-40°C Astrogy at Peak Load60.0C-40°C Astrogy at Peak Load60.0C <t< td=""><td>Hardness</td><td>Nominal Value</td><td>Unit</td><td>Test Method</td></t<>	Hardness	Nominal Value	Unit	Test Method
Tensile StrengthASTM D638Yield, 23°C50.0MPaBreak, 23°C43.0MPaTensile ElongationKASTM D638Yield, 23°C5.0%Break, 23°C270%Break, 23°C1900MPaASTM D790Rexural Strength Yield, 23°C)68.0MPaASTM D790InpactNominal ValueUnitTest MethodNotchel Izod Impact44J/mTest Method-40°C68.0J/mTest Method23°C80J/mTest Method23°CNo BreakJ/mTest Method-40°C Chargy at Peak Load36.0JTest Method-40°C Chargy at Peak Load36.0JTest Method23°CNo BreakJTest Method23°CNo BreakJTest Method23°C Inorgy at Peak Load36.0JTest Method045 MPa, Unannealed60.0JTest Method045 MPa, Unannealed66.0°CASTM D1935 ¹ 18 Ma, Unannealed66.0°CASTM D1925 ¹ 045 MPa, Unannealed92.0%ASTM D10318 Aguing Temperature92.0%ASTM D10319 Aguita String Temperature70.0°CTest Method10 Test Method10Test MethodTest Method10 Test String Temperature92.0%ASTM D10319 Aguita String Test Stri	Rockwell Hardness (R-Scale, 23°C)	107		ASTM D785
Yield, 23°C50.0MPaBreak, 23°C43.0MPaTensile ElongationS.0%Yield, 23°C5.0%Break, 23°C270%Break, 23°C1900MPaASTM D790Break, 23°C68.0MPaASTM D790InpactNominal ValueUnitTest MethodNotched Izod Impact44J/m23°C80J/m40°CNo BreakJ/m23°CNo Break40°CNo Break40°C, Energy at Peak Load38.0J23°CNo Break40°C, Energy at Peak Load38.0J23°CNo Break40°C, Energy at Peak Load66.0°C18.MPa, Unannealed66.0°C18.MPa, Unannealed66.0°C18.MPa, Unannealed92.0% ASTM D10318.MPa, Unannealed92.0% ASTM D10319.Break10UnitTest Method19.Break10°CStM D10319.Break10°CStM D10319.Break10%ASTM D10319.Break10%ASTM D10319.Break310.20°CStM D10319.Break310.20°CStM D10319.Break310.20°CStM D10319.Break310.20°CStM D10319.Break310.20°CStM D10319.Br	Mechanical	Nominal Value	Unit	Test Method
Break, 23°C43.0MPaTensile ElongationS.0%Preak, 23°CS.0%Break, 23°CS.0%Break, 23°C1900MPaASTM D790Revural Modulus (23°C)68.0MPaASTM D790ImpactNominal ValueUnitTest MethodMotched Izod Impact44//m-40°C44//m23°C80//mUnotched Izod ImpactASTM D780-40°CNo Break//m23°CNo Break//m23°CNominal ValueJune040°CJointon//m23°CNominal Value//m040°CTest Method//m041°CStAM D703//m18 MPa, Unannealed66.0°C042Nominal Value//m045 MPa, Unannealed66.0°C18 MPa, Unannealed66.0%C19 CopicalNominal Value//m0pticalNominal Value/	Tensile Strength			ASTM D638
Teslie ElongationASTM D638Yield, 23°C5.0%Break, 23°C270%Flexural Modulus (23°C)1900MaASTM D790Impact6.0.0MaASTM D790Impact6.0.0MaASTM D790Motched Izod Impact6.0.0MaASTM D790Astrong MugatMaASTM D790MaAstrong Mugat6.0.0MaTest MethodAstrong Mugat44.0MinMa23°C80MinMaAstrong Astrong MugatNo BreakMaMa40°C Anergy at Peak Load38.0JMa40°C Energy at Peak Load38.0JMa40°C Energy at Peak Load38.0JMa40°C Energy at Peak Load73.0Test Method18 MPa, Unannealed73.0CMa18 MPa, Unannealed66.0°CMa19 Astrong Temperature86.0°CMa18 MPa, Unannealed92.0%ASTM D1323 ¹ 19 Astrong Temperature86.0°CMa19 Astrong Temperature10.0°CMa19 Astrong Temperature10.0%ASTM D1033 ¹ 19 Astrong Temperature10.0%ASTM D1033 ¹ 19 Astrong Temperature10.0%Ma10 Astrong Temperature10.0%Ma10 Astrong Temperature10.0%Ma10 Astrong Temperature10.0%Ma10 Astrong	Yield, 23°C	50.0	MPa	
Yield, 23°C 50 % Break, 23°C 270 % Flexural Modulus (23°C) 1900 MPa ASTM D790 Flexural Strength (Yield, 23°C) 68.0 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact 44 //m Test Method 40°C 44 //m STM D4812 23°C 00 Break //m STM D4812 40°C No Break STM D4812 STM D4812 40°C No Break STM D4812 STM D4812 40°C No Break STM D3763 STM D3763 40°C StM D3763 STM D4812 STM D4812 40°C Nominal Value Jatt D103763 STM D4812 40°C StM D3763 STM D4812 StM D3763 23°C Nominal Value Unit Test Method Deflection Temperature Under Load StM D403 StM D452 ¹ 0 AS MPa, Unannealed 66.0 "C StM D1033	Break, 23°C	43.0	MPa	
Break, 23°C270%Revural Modulus (23°C)68.0MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact44J/mTest Method23°C80.0J/mTest Modulus40°CNo BreakJ/mTest Modulus23°CNo BreakJ/mTest Modulus40°CNo BreakJ/mTest Modulus40°CNo BreakJ/mTest Modulus40°CNo BreakJ/mTest Modulus40°CNo BreakJTest Modulus23°C, Energy at Peak Load80.0JTest Method040°L, Energy at Peak Load60.0JTest Method045 MPa, Unannealed60.0"CTest Method18 MPa, Unannealed60.0"CTest Method045 MPa, Unannealed92.0% CASTM D103217 Imamil Transmittance (Total)92.0% CASTM D103218 MPa, Unannealed92.0% CASTM D103219 Oping Temperature10.0"CTest Method10 Transmittance (Total)92.0% CASTM D103210 pring Temperature10.0"CTest Method10 pring Temperature10.0"CTest Method <td>Tensile Elongation</td> <td></td> <td></td> <td>ASTM D638</td>	Tensile Elongation			ASTM D638
Flexural Modulus (23°C)1900MPaASTM D790Flexural Strength (Yield, 23°C)680MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact44J/m23°C80J/mUnnotched Izod ImpactNo BreakSTM D481240°CNo BreakSTM D376323°CNo BreakSTM D376323°CNo BreakSTM D376340°C, Energy at Peak Load880J23°C, Energy at Peak Load880J23°C, Energy at Peak Load380J23°C, Energy at Peak Load73.0°C1.8 MPa, Unannealed73.0°C1.8 MPa, Unannealed66.0°CVicta Softening Temperature86.0°CVicta Softening Temperature92.0%ASTM D1525 ¹ DatiedYouYouTransmittance (Total)92.0%Mominal ValueUnitTest MethodTransmittance (Total)92.0%Morinal ValueUnitStM D103InjectionNominal ValueUnitDying Temperature70.0°CDying Temperature30 to 280°CNominal ValueInitStM D103Injection4.0KrictNominal ValueYouYouDying Time4.0KrictNominal ValueYouYouNominal ValueYouYouNominal ValueYouYou <td>Yield, 23°C</td> <td>5.0</td> <td>%</td> <td></td>	Yield, 23°C	5.0	%	
Flexural Strength (Yield, 23°C)680MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact44//mSTM D25623°C80//mSTM D256Unnotched Izod ImpactNo BreakSTM D4812-40°CNo BreakSTM D376323°CNo BreakSTM D3763-40°C, Energy at Peak Load80.0J-40°C, Energy at Peak Load80.0J23°C, Energy at Peak Load80.0JDeflectin Temperature Under LoadVinitTest Method0.45 MPA, Unannealed73.0°C1.8 MPA, Unannealed66.0°CNotical Method73.0°C1.8 MPA, Unannealed92.0%COpticalNominal ValueUnitOpticalNominal ValueUnitInstructer (Total)92.0%CMital Sale1.0STM D103Haze<1.0	Break, 23°C	270	%	
Impact Nominal Value Unit Test Method Notched Izod Impact ASTM D256 40°C 44 J/m 23°C 80 J/m Unnotched Izod Impact ASTM D4812 -40°C No Break STM D4812 23°C No Break STM D3763 23°C No Break STM D3763 -40°C Energy at Peak Load 38.0 J 23°C, Energy at Peak Load 38.0 J 23°C, Energy at Peak Load 40.0 J Deflection Temperature Under Load Nominal Value Unit Test Method 0.45 MPa, Unannealed 66.0 °C ASTM D1525 ¹ 0.45 MPa, Unannealed 66.0 °C ASTM D1525 ¹ Optical Nominal Value Unit Test Method Transmittance (Total) 92.0 % ASTM D1003 Haze <1.0	Flexural Modulus (23°C)	1900	MPa	ASTM D790
Notched Izod Impact ASTM D256 40°C 44 //m 3°C 80 //m Unnotched Izod Impact //m //m 40°C No Break //m 3°C No Break //m 140°C No Break //m 23°C No Break //m 140°C, Energy at Peak Load 38.0 //m 23°C, Energy at Peak Load 38.0 //m 23°C, Energy at Peak Load 0.0 //m Deflection Temperature Under Load //m Test Method 0.45 MPA, Unannealed 66.0 °C //m 1.8 MPA, Unannealed 66.0 °C //m 0.45 MPA, Unannealed 92.0 %C ASTM D1003 Transmittance (Total) 92.0 %C ASTM D1003 Haze <1.0	Flexural Strength (Yield, 23°C)	68.0	MPa	ASTM D790
40°C44//m23°C80//mUnotched Izod Impact//mASTM D4812-40°CNo Break//m23°CNo Break//mInstrumented Dart ImpactSa BoaJ-40°C, Energy at Peak Load38.0J23°C, Energy at Peak LoadNominal ValueIntercemperatureDeflection Temperature Under LoadNominal ValueIntercemperature0.45 MPa, Unannealed73.0°C1.8 MPa, Unannealed66.0°CVicta Softening Temperature86.0°COpticalNominal ValueUnitOpticalNominal ValueMoninal ValueOpticalNominal ValueMoninal ValueInstrument (Total)9.2%ASTM D1003STM D1003InjectionNominal ValueUnitDring Temperature7.0°CDring Temperature7.0°CDring Temperature7.0°CDring Temperature3.0°CDring Temperature1.0NortDring Temperature1.0°CDring Temperature<	Impact	Nominal Value	Unit	Test Method
23°C80J/mUnotched Izod ImpactASTM D4812-40°CNo Break23°CNo BreakInstrumented Dart ImpactSTM D3763-40°C, Energy at Peak Load38.0J23°C, Energy at Peak Load38.0J23°C, Energy at Peak LoadMomina ValueInitDeflection Temperature Under LoadYou Momina ValueInitDeflection Temperature Under Load73.0°C1.8 MPa, Unannealed66.0°CVicat Softening Temperature86.0°COpticalNominal ValueUnitOpticalQ2.0% GTarsmittance (Total)92.0% GHaze<1.0	Notched Izod Impact			ASTM D256
Unotched Izod ImpactASTM D4812-40°CNo Break23°CNo BreakInstrumented Dart ImpactNo Break-40°C, Energy at Peak Load38.0J23°C, Energy at Peak Load40.0J23°C, Energy at Peak Load40.0JDeflection Temperature Under LoadVinitTest Method0.45 MPA, Unannealed73.0°C1.8 MPA, Unannealed66.0°CVicat Softening Temperature86.0°COpticalNominal ValueUnitOpticalNominal ValueUnitTarsmittance (Total)92.0%Maninal ValueUnitTest MethodInjectionNominal ValueUnitInjegring Temperature1.0%Mominal ValueUnitCUnitg Temperature7.0°CDrying Time7.0°CDrying Time2.0 to 280°CNordel Temperature1.5 to 30.0°CMotte1.5 to 30.0°CMOTEVersensing Method°CMOTESto 30.0°CMOTESto 30.0°C<	-40°C	44	J/m	
-40°CNo Break23°CNo BreakInstrumented Dart ImpactASTM D3763-40°C, Energy at Peak Load38.0J23°C, Energy at Peak Load40.0J23°C, Energy at Peak Load40.0JDeflection Temperature Under LoadJTest Method0.45 MPa, Unannealed73.0°C1.8 MPa, Unannealed66.0°CVicat Softening Temperature86.0°CVicat Softening Temperature86.0°COpticalNominal ValueUnitTrasmittance (Total)92.0%Marian ValueUnitInjectionNominal ValueUnitSTM D103Haze<1.0	23°C	80	J/m	
23°CNo BreakInstrumented Dart ImpactASTM D376340°C, Energy at Peak Load38.0J23°C, Energy at Peak Load40.0JThermalNominal ValueUnitTest MethodDeflection Temperature Under Load73.0°C045 MPa, Unannealed66.0°CV1.8 MPa, Unannealed66.0°CASTM D1525 ¹ OpticalNominal ValueUnitTest MethodOpticalNominal ValueVinitTest MethodTransmittance (Total)92.0%ASTM D1033InjectionNominal ValueUnitTest MethodInjectionNominal ValueUnitTest MethodInjectionNominal ValueVinitSTM D1033InjectionNominal ValueUnitTest MethodInjectionNominal ValueVinitSTM D1033InjectionNominal ValueVinitTest MethodInjectionNominal ValueVinitTest MethodInjectionSto 280°CCInjing Time15.0 to 30.0°CNoTSto 280°CNotSto 280°CNot <td< td=""><td>Unnotched Izod Impact</td><td></td><td></td><td>ASTM D4812</td></td<>	Unnotched Izod Impact			ASTM D4812
Instrumented Dart Impact ASTM D3763 -40°C, Energy at Peak Load 38.0 J 23°C, Energy at Peak Load 40.0 J Thermal Nominal Value Unit Test Method Deflection Temperature Under Load °C STM D648 0.45 MPa, Unannealed 66.0 °C STM D1525 ¹ 1.8 MPa, Unannealed 86.0 °C ASTM D1525 ¹ Optical Nominal Value Unit Test Method Optical Nominal Value Unit StM D1525 ¹ Injection 92.0 % ASTM D1003 Injection Nominal Value Unit StM D1003 Injection StM D1003 StM D1003 StM D1003	-40°C	No Break		
-40°C, Energy at Peak Load38.0J23°C, Energy at Peak Load40.0JThermalNominal ValueUnitTest MethodDeflection Temperature Under Load73.0°C0.45 MPa, Unannealed66.0°CSTM D6481.8 MPa, Unannealed86.0°CSTM D1525 ¹ OpticalNominal ValueUnitTest MethodTransmittance (Total)92.0%ASTM D1003Haze<1.0	23°C	No Break		
23°C, Energy at Peak Load40.0JThermalNominal ValueUnitTest MethodDeflection Temperature Under Load73.0°CSTM D6480.45 MPa, Unannealed66.0°CSTM D1525 ¹ 1.8 MPa, Unannealed86.0°CASTM D1525 ¹ OpticalNominal ValueUnitTest MethodTransmittance (Total)92.0%ASTM D1003Haze<1.0	Instrumented Dart Impact			ASTM D3763
ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load73.0°C0.45 MPa, Unannealed66.0°C1.8 MPa, Unannealed66.0°CVicat Softening Temperature86.0°COpticalNominal ValueUnitTest MethodTransmittance (Total)92.0%ASTM D1003Haze<1.0	-40°C, Energy at Peak Load	38.0	J	
Deflection Temperature Under LoadASTM D6480.45 MPa, Unannealed73.0°C1.8 MPa, Unannealed66.0°CVicat Softening Temperature86.0°COpticalNominal ValueUnitTest MethodTransmittance (Total)92.0%ASTM D1033Haze<1.0	23°C, Energy at Peak Load	40.0	J	
0.45 MPa, Unannealed73.0°C1.8 MPa, Unannealed66.0°CVicat Softening Temperature86.0°COpticalNominal ValueUnitTest MethodTransmittance (Total)92.0%ASTM D1003Haze<1.0	Thermal	Nominal Value	Unit	Test Method
1.8 MPa, Unannealed66.0°CVicat Softening Temperature86.0°CASTM D1525 1OpticalNominal ValueUnitTest MethodTransmittance (Total)92.0%ASTM D1003Haze<1.0	Deflection Temperature Under Load			ASTM D648
Vicat Softening Temperature86.0°CASTM D1525 ¹ OpticalNominal ValueUnitTest MethodTransmittance (Total)92.0%ASTM D1003Haze<1.0	0.45 MPa, Unannealed	73.0	°C	
OpticalNominal ValueUnitTest MethodTransmittance (Total)92.0%ASTM D1003Haze<1.0	1.8 MPa, Unannealed	66.0	°C	
Transmittance (Total)92.0%ASTM D1003Haze<1.0	Vicat Softening Temperature	86.0	°C	ASTM D1525 ¹
Haze< 1.0%ASTM D1003InjectionNominal ValueUnitDrying Temperature70.0°CDrying Time4.0hrProcessing (Melt) Temp230 to 280°CMold Temperature15.0 to 30.0°CNOTESolo 280Solo 280	Optical	Nominal Value	Unit	Test Method
InjectionNominal ValueUnitDrying Temperature70.0°CDrying Time4.0hrProcessing (Melt) Temp230 to 280°CMold Temperature15.0 to 30.0°CNOTE	Transmittance (Total)	92.0	%	ASTM D1003
Drying Temperature70.0°CDrying Time4.0hrProcessing (Melt) Temp230 to 280°CMold Temperature15.0 to 30.0°CNOTEVV	Haze	< 1.0	%	ASTM D1003
Drying Time 4.0 hr Processing (Melt) Temp 230 to 280 °C Mold Temperature 15.0 to 30.0 °C	Injection	Nominal Value	Unit	
Processing (Melt) Temp230 to 280°CMold Temperature15.0 to 30.0°CNOTEVOTEVOTE	Drying Temperature	70.0	°C	
Mold Temperature 15.0 to 30.0 °C NOTE	Drying Time	4.0	hr	
NOTE	Processing (Melt) Temp	230 to 280	°C	
	Mold Temperature	15.0 to 30.0	°C	
1. Loading 1 (10 N)	NOTE			
	1.	Loading 1 (10 N)		

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