DuraStar™ MN610

Thermoplastic Polyester

Eastman Chemical Company

Message:

DuraStar™ MN610 polymer has excellent appearance and is nearly water-clear. Its most outstanding features are toughness, chemical resistance, and excellent processing characteristics. MN610 has very good toughness as shown by Izod impact resistance. Easy to process, it flows readily and fills intricate molds. This product does not contain a mold release.

General Information			
Features	Good Chemical Resistance		
	Good Flow		
	Good Processability		
	Good Toughness		
	High Clarity		
	Pleasing Surface Appearance		
Uses	Medical/Healthcare Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.20	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.60	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 23°C)	103		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	1800	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	47.0	MPa	ASTM D638, ISO 527-2
Break, 23°C	51.0	MPa	ASTM D638
Break, 23°C	46.0	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	5.0	%	ASTM D638
Yield, 23°C	4.0	%	ISO 527-2
Break, 23°C	300	%	ASTM D638
Break, 23°C	200	%	ISO 527-2
Flexural Modulus			
23°C	2000	MPa	ASTM D790
23°C	1850	MPa	ISO 178
Flexural Stress			
23°C	65.0	MPa	ISO 178

Yield, 23°C	69.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
-40°C	40	J/m	ASTM D256
23°C	80	J/m	ASTM D256
-40°C	4.8	kJ/m^2	ISO 180
23°C	7.8	kJ/m^2	ISO 180
Unnotched Izod Impact			ASTM D4812
-40°C	No Break		
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	48.0	J	
23°C, Energy at Peak Load	42.0	J	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	74.0	°C	
1.8 MPa, Unannealed	65.0	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance			ASTM D1003
Total	91.0	%	
Regular	89.0	%	
Haze	0.30	%	ASTM D1003
Injection	**Nominal Value**	**Unit**	
Drying Temperature	70.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	230 to 280	°C	
Mold Temperature	15.0 to 30.0	°C	

Recommended distributors for this material

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