Drystar™ 0603

Copolyester

Eastman Chemical Company

Message:

Eastman is pleased to announce the launch of DRYSTAR* copolyesters. This new product-line is designed to meet the needs of converters seeking value-added solutions to their drying requirements of copolyesters. Eastman?s copolyesters are highly valued for their excellent balance of properties such as superior aesthetics, impact strength, and chemical resistance. These properties can be optimally realized when the resins are properly dehydrated in accordance to recommended drying conditions and equipment.
Recognizing this value, Eastman conceived Drystar™ copolyesters to allow converters with limited access to desiccant dryers to achieve these optimizations. In addition, some converters with desiccant dryers may still find Drystar™ copolyesters value-adding to attain production flexibility and cost saving by removing the drying process prior to injection molding, profile extruding, or extrusion blow molding copolyesters. The initial launch comprises of the commercialization of four grades of Drystar™ copolyesters and Eastman has on-going program to extend this strategic product-line in the future.
*DRYSTAR is only available in the Asia Pacific Region.

General Information	
Features	Good Chemical Resistance
	Good Impact Resistance
	Pleasing Surface Appearance
Forms	Pellets
Processing Method	Extrusion Blow Molding
	Injection Molding
	Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.50	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 23°C)	108		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
23°C	2030	MPa	ASTM D638
23°C	2000	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	50.0	MPa	ASTM D638
Yield, 23°C	48.0	MPa	ISO 527-2
Break, 23°C	30.0	MPa	ASTM D638
Break, 23°C	29.0	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	4.4	%	ASTM D638
Yield, 23°C	4.0	%	ISO 527-2
Break, 23°C	180	%	ASTM D638

Break, 23°C	200	%	ISO 527-2
Flexural Modulus			
23°C	2060	MPa	ASTM D790
23°C	2100	MPa	ISO 178
Flexural Strength			
23°C	68.0	MPa	ASTM D790
23°C	67.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
-40°C	40	J/m	ASTM D256
23°C	110	J/m	ASTM D256
-40°C	4.4	kJ/m^2	ISO 180
23°C	9.4	kJ/m^2	ISO 180
Unnotched Izod Impact			ASTM D4812
-40°C	No Break		
23°C	No Break		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	70.0	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	62.0	°C	ASTM D648, ISO 75-2/A
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance	90.0	%	ASTM D1003
Haze	0.20	%	ASTM D1003
Injection	**Nominal Value**	**Unit**	
Drying Temperature	71.0	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	249 to 271	°C	
Mold Temperature	16.0 to 38.0	°C	

Recommended distributors for this material

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