

Eastman Drystar 0325 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

This 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. Applications/Uses Injection molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Drystar-0325-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm @Thickness 3.20 mm	0.0020 - 0.0050 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength at Break	29.0 MPa	4210 psi	ISO 527
	30.0 MPa	4350 psi	ASTM D638
Tensile Strength, Yield	48.0 MPa	6960 psi	ISO 527
	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	180 %	180 %	ASTM D638
	200 %	200 %	ISO 527
Elongation at Yield	4.0 %	4.0 %	ISO 527
	4.4 %	4.4 %	ASTM D638
Tensile Modulus	2.00 GPa	290 ksi	ISO 527
	2.03 GPa	294 ksi	ASTM D638
Flexural Strength	67.0 MPa	9720 psi	ISO 178

Mechanical Properties	Metric Pa	English	Comments
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	2.10 GPa	305 ksi	ISO 178
Izod Impact, Notched	0.400 J/cm @Temperature -40.0 °C	0.749 ft-lb/in @Temperature -40.0 °F	ASTM D256
	1.05 J/cm @Temperature 23.0 °C	1.97 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	ASTM D4812
Izod Impact, Notched (ISO)	4.40 kJ/m ² @Temperature -40.0 °C	2.09 ft-lb/in ² @Temperature -40.0 °F	ISO 180
	9.40 kJ/m ² @Temperature 23.0 °C	4.47 ft-lb/in ² @Temperature 73.4 °F	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ISO 75
	70.0 °C	158 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	ISO 75
	62.0 °C	144 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	0.20 %	0.20 %	ASTM D1003
Transmission, Visible	90 %	90 %	Total Transmittance; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	249 - 271 °C	480 - 520 °F	
Mold Temperature	16.0 - 38.0 °C	60.8 - 100 °F	
Drying Temperature	71.0 °C	160 °F	
Dry Time	6 hour	6 hour	

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