

Eastman Eastar DN010 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastar Copolyester DN010 is a brilliantly clear polymer having excellent impact strength, chemical resistance, and low shrinkage rates.

Eastar Copolyester DN010 contains no mold release. Applications/Uses Displays Personal care

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-DN010-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	54.0 MPa	7830 psi	ASTM D638
Tensile Strength, Yield	44.0 MPa	6380 psi	ASTM D638
Elongation at Break	330 %	330 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Tensile Modulus	1.80 GPa	261 ksi	ASTM D638
Flexural Strength	66.0 MPa	9570 psi	ASTM D790
Flexural Modulus	1.80 GPa	261 ksi	ASTM D790
Izod Impact, Notched	0.770 J/cm	1.44 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	NB	NB	ASTM D4812
	NB	NB	ASTM D4812
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Puncture Energy	46.0 J	33.9 ft-lb	Puncture Resistance @Max Load, 23°C; ASTM D3763
	46.0 J	33.9 ft-lb	Puncture Resistance at Max Load; ASTM D3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	73.0 °C	163 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	64.0 °C	147 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	1.4 %	1.4 %	ASTM D1003
Transmission, Visible	89 %	89 %	Regular Transmittance; ASTM D1003
	92 %	92 %	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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