Eastman DuraStar MN611 Polymer, Natural

Category : Polymer , Thermoplastic , Polyester, TP , Polycyclohexylenedimethylene Terephthalate (PCT) , Glycol-Modified PCT (PCTG) Copolyester

Material Notes:

Durastar Polymer MN611 contains a mold release. It has excellent appearance and is nearly water-clear. Its most outstanding features are toughness, chemical resistance, and excellent processing characteristics. MN611 has very good toughness.Applications/UsesMedical

Order this product through the following link:
http://www.lookpolymers.com/polymer_Eastman-DuraStar-MN611-Polymer-Natural.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm @Thickness 3.20 mm	0.0020 - 0.0060 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ASTM D785
Tensile Strength at Break	46.0 MPa	6670 psi	ISO 527
	51.0 MPa	7400 psi	ASTM D638
Tensile Strength, Yield	47.0 MPa	6820 psi	ASTM D638
	47.0 MPa	6820 psi	ISO 527
Elongation at Break	200 %	200 %	ISO 527
	300 %	300 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ISO 527
	5.0 %	5.0 %	ASTM D638
Tensile Modulus	1.80 GPa	261 ksi	ISO 527
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Flexural Yield Strength	69.0 MPa	10000 psi	ASTM D790
Flexural Modulus	1.85 GPa	268 ksi	ISO 178
	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm @Temperature -40.0 °C	0.749 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.800 J/cm	1.50 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@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)	4.80 kJ/m² @Temperature -40.0 °C	2.28 ft-lb/in² @Temperature -40.0 °F	ISO 180
	7.80 kJ/m² @Temperature 23.0 °C	3.71 ft-lb/in² @Temperature 73.4 °F	ISO 180
Puncture Energy	42.0 J	31.0 ft-lb	Puncture Resistance @Max Load, 23°C; ASTM D3763
	48.0 J @Temperature -40.0 °C	35.4 ft-lb @Temperature -40.0 °F	Puncture Resistance at Max Load; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	74.0 °C	165 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	0.30 %	0.30 %	ASTM D1003
Transmission, Visible	89 %	89 %	Regular Transmittance; ASTM D1003
	91 %	91 %	Total Transmittance; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	232 - 277 °C	450 - 531 °F	
Mold Temperature	16.0 - 38.0 °C	60.8 - 100 °F	
Drying Temperature	71.0 °C	160 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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