

Eastman DuraStar MN631 Polymer, Natural

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

Material Notes:

Durastar Polymer MN631 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. MN631 has very good toughness. Easy to process with minimal drying time, it flows readily and fills the most intricate tools. Applications/Uses Medical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-DuraStar-MN631-Polymer-Natural.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	24h Immersion; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D785
Tensile Strength at Break	43.0 MPa	6240 psi	ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	270 %	270 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Yield Strength	68.0 MPa	9860 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	0.440 J/cm @Temperature -40.0 °C	0.824 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.800 J/cm @Temperature 23.0 °C	1.50 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
Puncture Energy	40.0 J	29.5 ft-lb	Puncture Resistance @Max Load, 23°C; ASTM D3763
	38.0 J	28.0 ft-lb	

Mechanical Properties	Metric @ Temperature -40.0 °C	English @ Temperature -40.0 °F	Comments Puncture Resistance at Max Load; ASTM D1763
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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)	66.0 °C	151 °F	ASTM D648
Vicat Softening Point	86.0 °C	187 °F	1kg load; ASTM D1525

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	92 %	92 %	Total Transmittance; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 280 °C	446 - 536 °F	
Mold Temperature	15.0 - 30.0 °C	59.0 - 86.0 °F	
Drying Temperature	70.0 °C	158 °F	
Dry Time	4 hour	4 hour	

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