

Eastman Eastar GN078 Copolyester, Natural

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Unreinforced

Material Notes:

Eastar Copolyester GN078 builds on the strength of Eastar Copolyester GN077 by offering improved melt strength and toughness. Eastar Copolyester GN078 does not meet FDA compliance but is an excellent product for large tough bottles not requiring this approval. Eastar Copolyester GN078 is an environmentally responsible material that contains no halogens or orthophthalate plasticizers. Applications/Uses Non-FDA EBM applications

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-GN078-Copolyester-Natural.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D638
Tensile Strength, Yield	47.0 MPa	6820 psi	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	1.90 GPa	276 ksi	ASTM D638
Flexural Strength	65.0 MPa	9430 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	0.630 J/cm @Temperature -40.0 °C	1.18 ft-lb/in @Temperature -40.0 °F	ASTM D256
	NB @Temperature 23.0 °C	NB @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	41.0 J	30.2 ft-lb	Puncture Resistance @Max Load, 0°C; ASTM D3763

Mechanical Properties	41.0 J Metric	30.2 ft-lb English	Puncture Resistance @ Max Load, 23 °C, ASTM D3763 Comments
	39.0 J @Temperature -40.0 °C	28.8 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)	73.0 °C	163 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	ASTM D648
Vicat Softening Point	85.0 °C	185 °F	1kg load; ASTM D1525

Optical Properties	Metric	English	Comments
Haze	1.3 %	1.3 %	ASTM D1003
Gloss	143 %	143 %	at 60°; ASTM D2457
Transmission, Visible	87 %	87 %	Regular Transmittance; ASTM D1003
	91 %	91 %	Total Transmittance; ASTM D1003

Descriptive Properties	Value	Comments
Color, CIE a*	-0.2	ASTM D2244
Color, CIE b*	0.6	ASTM D2244
Color, CIE L*	95	ASTM D2244

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