

Eastman Eastar GN077 Copolyester, Natural

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

Material Notes:

Eastar Copolyester GN077 is an amorphous resin with good melt strength, chemical resistance, high clarity and gloss. It is an excellent choice for extrusion blow molding small to intermediate size containers. Film and optical properties measured at a thickness of 10 mils.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-GN077-Copolyester-Natural.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D1505
Water Vapor Transmission	0.490 g/m ² /day	0.0316 g/100 in ² /day	ASTM F372
Oxygen Transmission	23.0 cc-mm/m ² -24hr-atm	58.4 cc-mil/100 in ² -24hr-atm	ASTM D3985
Viscosity Measurement	0.70	0.70	Inherent; EMN-A-AC-G-V-1
Thickness	254 microns	10.0 mil	ASTM D374

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.0 MPa	3190 psi	ASTM D638
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	184 %	184 %	ASTM D638
Flexural Yield Strength	73.0 MPa	10600 psi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.650 J/cm	1.22 ft-lb/in	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	24.0 J	17.7 ft-lb	max load; ASTM D3763
	@Thickness 3.20 mm, Temperature -40.0 °C	@Thickness 0.126 in, Temperature -40.0 °F	
	33.0 J	24.3 ft-lb	max load; ASTM D3763
	@Thickness 3.20 mm,	@Thickness 0.126 in,	

Mechanical Properties	Temperature 23.0 °C Metric	Temperature 73.4 °F English	Comments
-----------------------	-------------------------------	--------------------------------	----------

Thermal Properties	Metric	English	Comments
Vicat Softening Point	74.0 °C	165 °F	1kg load; ASTM D1525
Glass Transition Temp, Tg	75.0 °C	167 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	0.70 %	0.70 %	ASTM D1003
Gloss	166 %	166 %	at 60°; ASTM D2457
Transmission, Visible	67 %	67 %	Transparency; ASTM D1746
	89 %	89 %	Regular Transmittance; ASTM D1003
	92 %	92 %	Total Transmittance; ASTM D1003

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China