

## Eastman Eastar GN125 Copolyester, Natural (discontinued \*\*)

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

### Material Notes:

Eastar Copolyester GN125 is a glycol modified polyethylene terephthalate (PET) that contains an ultraviolet light inhibitor. This product is recommended for indoor applications requiring enhanced color stability. Eastar copolyester GN125 will not crystallize and as a result, offers a wider processing latitude than conventional crystallizable polyesters. This product offers an excellent combination of clarity, toughness, and melt strength that makes it useful for a variety of processing techniques and end-use applications. Applications/Uses: Cosmetics/personal care packaging, Writing Instruments, Point of purchase displays, Toys/Sporting goods, Lighting

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-Eastar-GN125-Copolyester-Natural-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Eastman-Eastar-GN125-Copolyester-Natural-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption	0.13 %	0.13 %	24h Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm @Thickness 3.20 mm	0.0020 - 0.0050 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength at Break	27.0 MPa	3920 psi	ISO 527
	30.0 MPa	4350 psi	ASTM D638
Tensile Strength, Yield	49.0 MPa	7110 psi	ASTM D638
	49.0 MPa	7110 psi	ISO 527
Elongation at Break	110 %	110 %	ISO 527
	150 %	150 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ISO 527
	4.3 %	4.3 %	ASTM D638
Tensile Modulus	2.01 GPa	292 ksi	ASTM D638
	2.02 GPa	293 ksi	ISO 527
Flexural Strength	69.0 MPa	10000 psi	ISO 178
	71.0 MPa	10300 psi	ASTM D790

Mechanical Properties	Metric <sup>Pa</sup>	English	Comments
	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	0.270 J/cm @Temperature -40.0 °C	0.506 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.980 J/cm @Temperature 23.0 °C	1.84 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
Izod Impact, Notched (ISO)	3.90 kJ/m <sup>2</sup> @Temperature -40.0 °C	1.86 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ISO 180
	8.10 kJ/m <sup>2</sup> @Temperature 23.0 °C	3.85 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ISO 75
	69.0 °C	156 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ASTM D648
	62.0 °C	144 °F	ISO 75

Optical Properties	Metric	English	Comments
Haze	0.30 %	0.30 %	ASTM D1003
Transmission, Visible	91 %	91 %	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	4 - 6 hour	4 - 6 hour	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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