

## Eastman Eastar 5011 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

### Material Notes:

Eastar Copolyester 5011 is a glycol modified polyethylene terephthalate(PET). The modification is made by adding a second glycol, cyclohexanedimethanol (CHDM) during the polymerization stages. The second glycol is added in the proper proportion to produce an amorphous polymer. Applications/Uses: Cosmetics/personal care packaging, Pen/Stationary supplies, Point of purchase displays, Toys/Sporting goods

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-Eastar-5011-Copolyester.php](http://www.lookpolymers.com/polymer_Eastman-Eastar-5011-Copolyester.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Water Absorption	0.13 %	0.13 %	24h Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength at Break	25.0 MPa	3630 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	0.280 J/cm	0.525 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.690 J/cm	1.29 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	NB	NB	ASTM D4812
	26.0 J/cm	48.7 ft-lb/in	
	@Temperature -40.0 °C	@Temperature -40.0 °F	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	67.0 °C	153 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	0.30 %	0.30 %	ASTM D1003
Transmission, Visible	90 %	90 %	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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