

Eurostar Starglas FX05032 PE

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Starglas FX05032 is Polyethylene Resin with a Proprietary Additive (foaming agent for polyolefins) Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starglas-FX05032-PE.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	E2P method
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	18.0 MPa	2610 psi	5 mm/min; ISO 527
Elongation at Break	1.0 %	1.0 %	5 mm/min; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527
Flexural Strength	27.0 MPa	3920 psi	2 mm/min; ISO 178
Flexural Yield Strength	32.0 MPa	4640 psi	2 mm/min; ISO 178
Flexural Modulus	2.10 GPa	305 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	195 - 205 °C	383 - 401 °F	
Zone 2	210 - 220 °C	410 - 428 °F	
Zone 3	220 - 230 °C	428 - 446 °F	
Melt Temperature	230 °C	446 °F	
Mold Temperature	40.0 - 55.0 °C	104 - 131 °F	

Processing Properties	80.0 °C Metric	176 °F English	Comments
	@Time 7200 sec	@Time 2.00 hour	

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