

Entec Hylex® P1025G10NHFR Polycarbonate, 10% Glass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Entec's proprietary products include a full range of compounds in the Nylon 6/6, Nylon 6, ABS, PBT, Polycarbonate, PC/ABS, PC/ASA, PC/PBT, and PPO/PPE resin families. Information provided by Entec.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Entec-Hylex-P1025G10NHFR-Polycarbonate-10-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Water Absorption	0.14 %	0.14 %	24-Hr Immersion; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Melt Flow	22 - 28 g/10 min @Load 3.80 kg, Temperature 230 °C	22 - 28 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	79.3 MPa	11500 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
Flexural Strength	114 MPa	16500 psi	ASTM D790
Flexural Modulus	4.14 GPa	600 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	128 °C	262 °F	ASTM D648
Vicat Softening Point	149 °C	300 °F	ASTM D1525
Flammability, UL94	V-0	V-0	0.071 inches

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 277 °C	500 - 530 °F	

Middle Barrel Temperature Processing Properties	266 - 277 °C Metric	510 - 530 °F English	Comments
Front Barrel Temperature	271 - 282 °C	520 - 540 °F	
Nozzle Temperature	277 - 288 °C	530 - 550 °F	
Melt Temperature	277 - 288 °C	530 - 550 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Drying Temperature	110 - 121 °C	230 - 250 °F	
Dry Time	3 - 4 hour	3 - 4 hour	
	4 - 6 hour	4 - 6 hour	with regrind
Injection Pressure	5.52 - 11.0 MPa	800 - 1600 psi	
Hold Pressure	5.52 - 8.27 MPa	800 - 1200 psi	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Shot Size	40 - 60 %	40 - 60 %	To Cylinder
Screw Speed	40 - 70 rpm	40 - 70 rpm	

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