

Ravago Manufacturing Americas Hylac® GP30G ABS, 30% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 30% Glass Fiber Filled

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 Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylac-GP30G-ABS-30-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
Melt Flow	1.5 g/10 min @Load 3.80 kg, Temperature 230 °C	1.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	93.1 MPa	13500 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Flexural Yield Strength	128 MPa	18500 psi	ASTM D790
Flexural Modulus	7.93 GPa	1150 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	73°F, 0.125 in; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	109 °C	228 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	
	V-0	V-0	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	191 - 199 °C	375 - 390 °F	
Middle Barrel Temperature	204 - 221 °C	400 - 430 °F	
Front Barrel Temperature	210 - 224 °C	410 - 435 °F	
Nozzle Temperature	210 - 229 °C	410 - 445 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	48.9 - 60.0 °C	120 - 140 °F	
Moisture Content	<= 0.010 %	<= 0.010 %	
Injection Pressure	7.24 - 8.27 MPa	1050 - 1200 psi	
Back Pressure	0.483 - 0.827 MPa	70.0 - 120 psi	
Shot Size	40 - 80 %	40 - 80 %	
Screw Speed	50 - 70 rpm	50 - 70 rpm	

Descriptive Properties	Value	Comments
Holding Pressure	900 to 1000 psi	
Injection Rate	Slow-Medium	

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