

Entec Hylac® EX18 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

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_Entec-Hylac-EX18-ABS.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	0.40 g/10 min	0.40 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	0.80 g/10 min	0.80 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	34.5 MPa	5000 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Tensile Modulus	2.31 GPa	335 ksi	ASTM D638
Flexural Yield Strength	55.2 MPa	8000 psi	ASTM D790
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790
Izod Impact, Notched	3.84 J/cm	7.20 ft-lb/in	0.125 in; ASTM D256
	4.32 J/cm	8.10 ft-lb/in	73°F, 0.125 in; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	119 µm/m-°C	66.0 µin/in-°F	ASTM D696
	@Temperature -40.0 - 176 °C	@Temperature -40.0 - 349 °F	
Deflection Temperature at 0.46 MPa (66 psi)	96.1 °C	205 °F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (104 psi)	86.1 °C	187 °F	Unannealed; ASTM D648
Vicat Softening Point	106 °C	223 °F	ASTM D1525

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Zone 1	191 - 210 °C	375 - 410 °F	
Zone 2	191 - 210 °C	375 - 410 °F	
Zone 3	199 - 221 °C	390 - 430 °F	
Zone 4	199 - 221 °C	390 - 430 °F	
Zone 5	199 - 221 °C	390 - 430 °F	
Adapter Temperature	221 - 241 °C	430 - 465 °F	
Die Temperature	221 - 241 °C	430 - 465 °F	
Drying Temperature	85.0 °C	185 °F	
Dry Time	3 hour	3 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	

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