

Ravago Manufacturing Americas Hylac® FR134 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

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-FR134-ABS.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	5.2 g/10 min	5.2 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	13 g/10 min	13 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	37.9 MPa	5500 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	ASTM D638
Flexural Yield Strength	60.7 MPa	8800 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	1.55 J/cm	2.90 ft-lb/in	0.25 in; ASTM D256
	1.98 J/cm	3.70 ft-lb/in	73°F, 0.125 in; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	130 µm/m-°C	72.0 µin/in-°F	ASTM D696
	@Temperature -40.0 - 176 °C	@Temperature -40.0 - 349 °F	
Deflection Temperature at 0.46 MPa (66 psi)	82.8 °C	181 °F	Unannealed; ASTM D648

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	72.8 °C Metric	163 °F English	Unannealed; ASTM D648 Comments
Vicat Softening Point	87.8 °C	190 °F	ASTM D1525
Flammability, UL94	V-0	V-0	0.0590 in
	V-0	V-0	0.0980 in
	5VA	5VA	0.0980 in.

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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	166 - 177 °C	330 - 350 °F	
Middle Barrel Temperature	168 - 185 °C	335 - 365 °F	
Front Barrel Temperature	179 - 191 °C	355 - 375 °F	
Nozzle Temperature	174 - 185 °C	345 - 365 °F	
Melt Temperature	202 °C	395 °F	Aim
Mold Temperature	40.6 - 71.1 °C	105 - 160 °F	
Moisture Content	<= 0.10 %	<= 0.10 %	
Injection Pressure	4.90 - 5.86 MPa	710 - 850 psi	
Back Pressure	0.483 - 0.965 MPa	70.0 - 140 psi	
Shot Size	40 - 80 %	40 - 80 %	
Screw Speed	50 - 90 rpm	50 - 90 rpm	

Descriptive Properties	Value	Comments
Holding Pressure	570 to 710 psi	
Injection Rate	Slow-Moderate	

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