

LG Chemical RX710 ABS, High Impact, Chemical Resistance to HCFC

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

Material Notes:

Feature: Injection Molding, Chemical Resistance to HCFC, High ImpactApplication: Refrigerator Dispensor & HomebarCAS No. 9003-56-9Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-RX710-ABS-High-Impact-Chemical-Resistance-to-HCFC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	37 g/10 min @Load 10.0 kg, Temperature 220 Â°C	37 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength, Yield	38.2 MPa @Thickness 3.20 mm	5550 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	30 % @Thickness 3.20 mm	30 % @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Yield	>= 5.0 % @Thickness 3.20 mm	>= 5.0 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	56.9 MPa @Thickness 3.20 mm	8250 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	1.86 GPa @Thickness 3.20 mm	270 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	2.94 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	5.51 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	5.88 J/cm	11.0 ft-lb/in	ASTM D256

Mechanical Properties	Metric @Thickness 3.20 mm, Temperature 23.0 Â°C	English @Thickness 0.126 in, Temperature 73.4 Â°F	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.0 Â°C @Thickness 6.40 mm	194 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	84.0 Â°C @Thickness 6.40 mm	183 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	91.0 Â°C @Load 5.00 kg	196 Â°F @Load 11.0 lb	50Â°C/h; ASTM D1525
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
Middle Barrel Temperature	190 - 230 Â°C	374 - 446 Â°F	Injection Molding
Front Barrel Temperature	200 - 250 Â°C	392 - 482 Â°F	Injection Molding
Nozzle Temperature	200 - 250 Â°C	392 - 482 Â°F	Injection Molding
Melt Temperature	200 - 250 Â°C	392 - 482 Â°F	Injection Molding
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	Injection Molding
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	0.490 - 0.981 MPa	71.1 - 142 psi	Injection Molding
Screw Speed	50 - 100 rpm	50 - 100 rpm	Injection Molding

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