

LG Chemical RS-800 ABS, Extrusion, High Impact, HCFC Resistant

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

Material Notes:

Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-RS-800-ABS-Extrusion-High-Impact-HCFC-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 2577
Melt Index of Compound	5.775 g/10 min @Load 10.0 kg, Temperature 220 °C	5.775 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	41.0 MPa	5950 psi	50 mm/min; ISO 527
Elongation at Break	30 %	30 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.10 GPa	305 ksi	1 mm/min; ISO 527
Flexural Yield Strength	67.0 MPa	9720 psi	2 mm/min; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	22.0 kJ/m ² @Temperature -30.0 °C	10.5 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	42.0 kJ/m ² @Temperature 23.0 °C	20.0 ft-lb/in ² @Temperature 73.4 °F	ISO 80
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179

Mechanical Properties Charpy Impact, Notched	Metric 2.50 J/cmÂ²	English 11.9 ft-lb/inÂ²	Comments ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	ISO 179
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 Âµm/m-Â°C	41.7 Âµin/in-Â°F	ISO 11359
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
CTE, linear, Transverse to Flow	98.0 Âµm/m-Â°C	54.4 Âµin/in-Â°F	ISO 11359
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	97.0 Â°C	207 Â°F	Annealed, 80Â°C, 4 hours; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Â°C	201 Â°F	Annealed, 80Â°C, 4 hours; ISO 175
Vicat Softening Point	97.0 Â°C	207 Â°F	50 N, 50Â°C/h; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 93
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 93
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 243
Comparative Tracking Index	575 V	575 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 250 Â°C	428 - 482 Â°F	
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	
Drying Temperature	75.0 - 85.0 Â°C	167 - 185 Â°F	
Dry Time	2 - 4 hour	2 - 4 hour	Predrying

Processing Properties	Metric	English	Comments
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