

LG Chemical RS-650 ABS, Extrusion, General Purpose

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-650-ABS-Extrusion-General-Purpose.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	6.825 g/10 min @Load 10.0 kg, Temperature 220 °C	6.825 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	52.0 MPa	7540 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	2.30 GPa	334 ksi	1 mm/min; ISO 527
Flexural Yield Strength	76.0 MPa	11000 psi	2 mm/min; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	16.0 kJ/m ² @Temperature -30.0 °C	7.61 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	34.0 kJ/m ² @Temperature 23.0 °C	16.2 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 1.90 J/cm ²	English 9.04 ft-lb/in ²	Comments ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.60 J/cm ²	17.1 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Åµm/m-Å°C	44.4 Åµin/in-Å°F	ISO 11359
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
CTE, linear, Transverse to Flow	87.0 Åµm/m-Å°C	48.3 Åµin/in-Å°F	ISO 11359
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	98.0 Å°C	208 Å°F	Annealed, 80Å°C, 4 hours; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Å°C	203 Å°F	Annealed, 80Å°C, 4 hours; ISO 175
Vicat Softening Point	99.0 Å°C	210 Å°F	50 N, 50Å°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 Constant	2.9	2.9	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.0	3.0	IEC 250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	47.0 kV/mm	1190 kV/in	IEC 243
Dissipation Factor	0.0090	0.0090	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	525 V	525 V	IEC 112

Electrical Properties	Metric	English	Comments
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

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