

LG Chemical® XR409H

Feature: Injection Molding, Heat Resistance

Application: Automotives Interior Housing (Switch Panel Housing etc)

CAS No. 25120-20-1, 9003-56-9, 25747-74-7, and 31621-07-5

Information provided by LG Chemical

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 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	3.0 g/10 min @Load 10.0 kg, Temperature 220 °C	3.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238
Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength, Yield	47.1 MPa @Thickness 3.20 mm	6830 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	20 % @Thickness 3.20 mm	20 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	73.5 MPa @Thickness 3.20 mm	10700 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.35 GPa @Thickness 3.20 mm	341 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	1.47 J/cm @Thickness 6.40 mm, Temperature 23.0 °C	2.76 ft-lb/in @Thickness 0.252 in, Temperature 73.4 °F	ASTM D256
	1.57 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	2.94 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	0.686 J/cm @Thickness 6.40 mm, Temperature -30.0 °C	1.29 ft-lb/in @Thickness 0.252 in, Temperature -22.0 °F	ASTM D256
	0.785 J/cm @Thickness 3.20 mm, Temperature -30.0 °C	1.47 ft-lb/in @Thickness 0.126 in, Temperature -22.0 °F	ASTM D256