

LG Chemical[®] TR556

Feature: Injection Molding, Transparency, Chemical Resistance
 Application: Sound Proofing Wall, Canopy, Other Transparent Sheets

CAS No. 9011-14-7 and 9003-56-9

Information provided by LG Chemical

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Melt Flow	4.0 g/10 min @Load 10.0 kg, Temperature 220 °C	4.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238
Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	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	30 % @Thickness 3.20 mm	30 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	73.5 MPa @Thickness 6.40 mm	10700 psi @Thickness 0.252 in	15 mm/min; ASTM D790
Flexural Modulus	2.16 GPa @Thickness 6.40 mm	313 ksi @Thickness 0.252 in	15 mm/min; ASTM D790
Izod Impact, Notched	1.77 J/cm @Thickness 6.40 mm, Temperature 23.0 °C	3.31 ft-lb/in @Thickness 0.252 in, Temperature 73.4 °F	ASTM D256
	1.77 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	3.31 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C @Thickness 6.40 mm	185 °F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	50.0 °C @Thickness >=1.50 mm	122 °F @Thickness >=0.0591 in	
	50.0 °C @Thickness >=3.00 mm	122 °F @Thickness >=0.118 in	
UL RTI, Mechanical with Impact	50.0 °C @Thickness >=1.50 mm	122 °F @Thickness >=0.0591 in	
	50.0 °C @Thickness >=3.00 mm	122 °F @Thickness >=0.118 in	
UL RTI, Mechanical without Impact	50.0 °C @Thickness >=1.50 mm	122 °F @Thickness >=0.0591 in	
	50.0 °C @Thickness >=3.00 mm	122 °F @Thickness >=0.118 in	
Flammability, UL94	HB @Thickness >=1.50 mm	HB @Thickness >=0.0591 in	
	HB @Thickness >=3.00 mm	HB @Thickness >=0.118 in	
Optical Properties	Metric	English	Comments
Haze	2.6 %	2.6 %	ASTM D1003
Transmission, Visible	89 %	89 %	ASTM D1003