

Technical Data

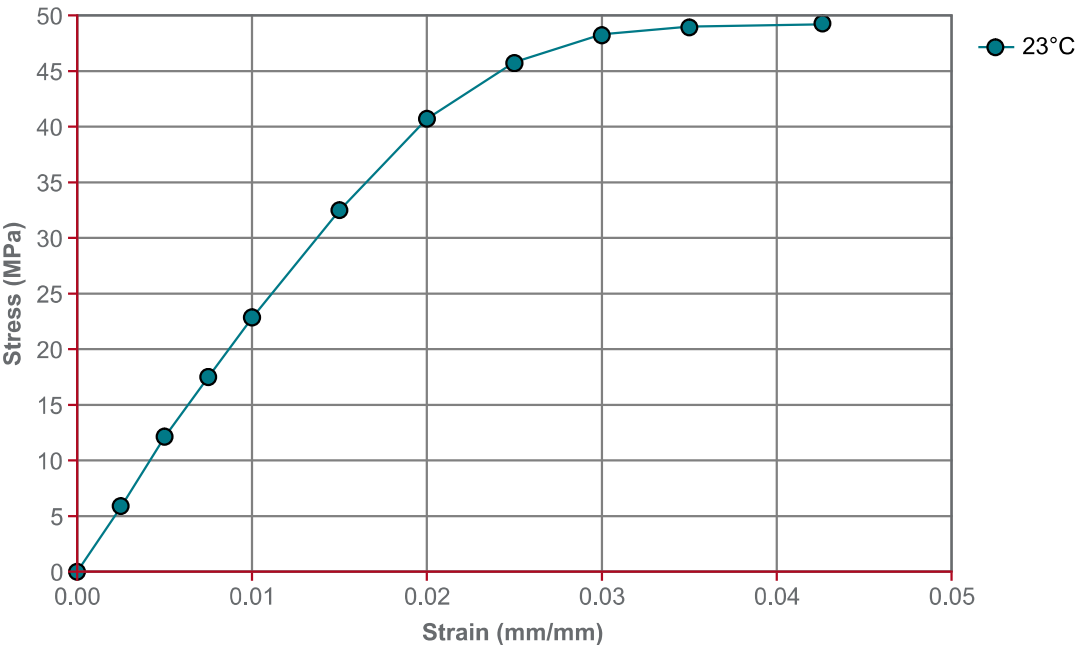
Product Description		
Description		
Flame Retardant, High Impact		
Applications		
IT/OA, Automotive (Connector)		
General		
Material Status	• Commercial: Active	
Literature ¹	• Technical Datasheet (English)	
UL Yellow Card ²	<ul style="list-style-type: none"> • E302314-530020 • E67171-248568 • E248280-533891 • E353371-101101330 • E67171-248609 • E67171-301077 	
Search for UL Yellow Card	<ul style="list-style-type: none"> • LG Chem Ltd. • Lupox® 	
Availability	<ul style="list-style-type: none"> • Asia Pacific • Europe 	<ul style="list-style-type: none"> • Latin America • North America
Additive	• Flame Retardant	
Features	• Flame Retardant	• High Impact Resistance
Uses	• Automotive Applications	• Connectors
Automotive Specifications	• GM GMW15702-120010	• IMDS ID 5839561
Processing Method	• Injection Molding	
Multi-Point Data	<ul style="list-style-type: none"> • Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1) 	<ul style="list-style-type: none"> • Specific Heat vs. Temperature (ISO 11403-2) • Viscosity vs. Shear Rate (ISO 11403-2)
Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.42 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	18 g/10 min	ASTM D1238
Molding Shrinkage - Flow		ASTM D955
23°C, 3.20 mm, Injection Molded	1.2 to 2.0 %	
Water Absorption (24 hr, 23°C)	0.080 %	ASTM D570
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ⁴		ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	51.0 MPa	
Tensile Elongation ⁴		ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	> 50 %	
Flexural Modulus ⁵		ASTM D790
23°C, 3.20 mm, Injection Molded	2160 MPa	
Flexural Strength ⁵		ASTM D790
23°C, 3.20 mm, Injection Molded	71.6 MPa	
Impact	Nominal Value Unit	Test Method
Notched Izod Impact		ASTM D256
23°C, 6.40 mm, Injection Molded	59 J/m	



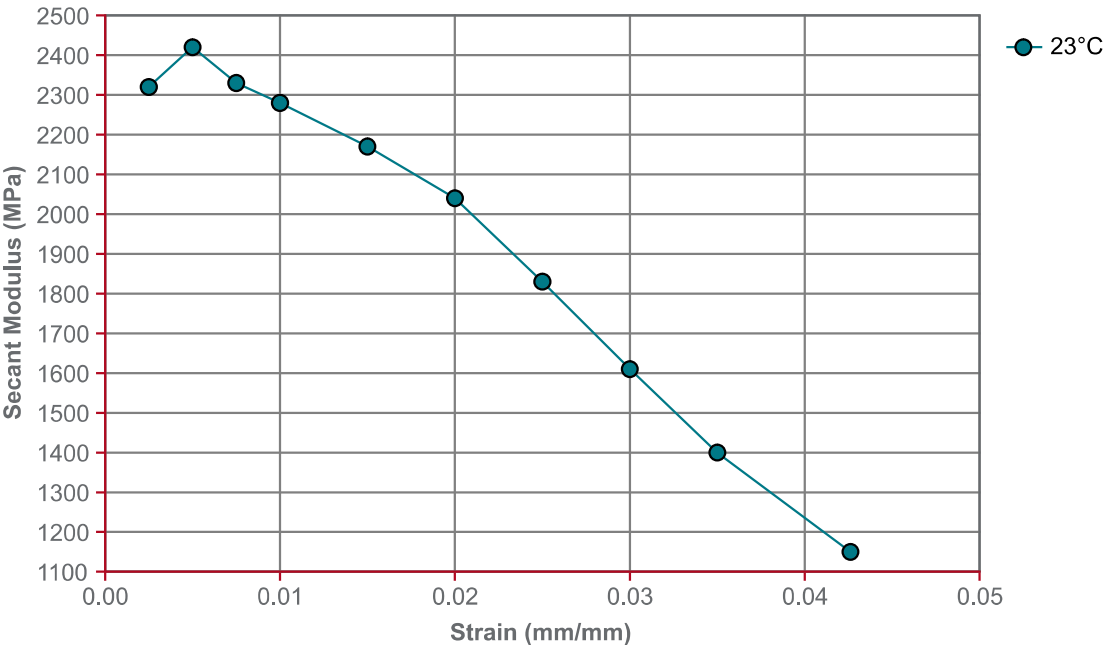
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 6.40 mm, Injection Molded	62.0 °C	ASTM D648
Peak Melting Temperature	223 °C	ASTM D3418
RTI Elec	130 °C	UL 746
RTI Imp	130 °C	UL 746
RTI Str	140 °C	UL 746
Electrical	Nominal Value Unit	Test Method
Volume Resistivity (23°C)	1.0E+13 ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	20 kV/mm	ASTM D149
Arc Resistance	PLC 6	ASTM D495
Comparative Tracking Index (CTI) ⁶	PLC 0	UL 746
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.71 mm	V-0	
1.5 mm	V-0	
3.0 mm	V-0	
	5VA	
Injection	Nominal Value Unit	
Drying Temperature	110 to 120 °C	
Drying Time	4.0 to 6.0 hr	
Suggested Max Moisture	0.020 %	
Rear Temperature	235 to 240 °C	
Middle Temperature	240 to 245 °C	
Front Temperature	245 to 250 °C	
Nozzle Temperature	245 to 255 °C	
Processing (Melt) Temp	245 to 255 °C	
Mold Temperature	40 to 80 °C	



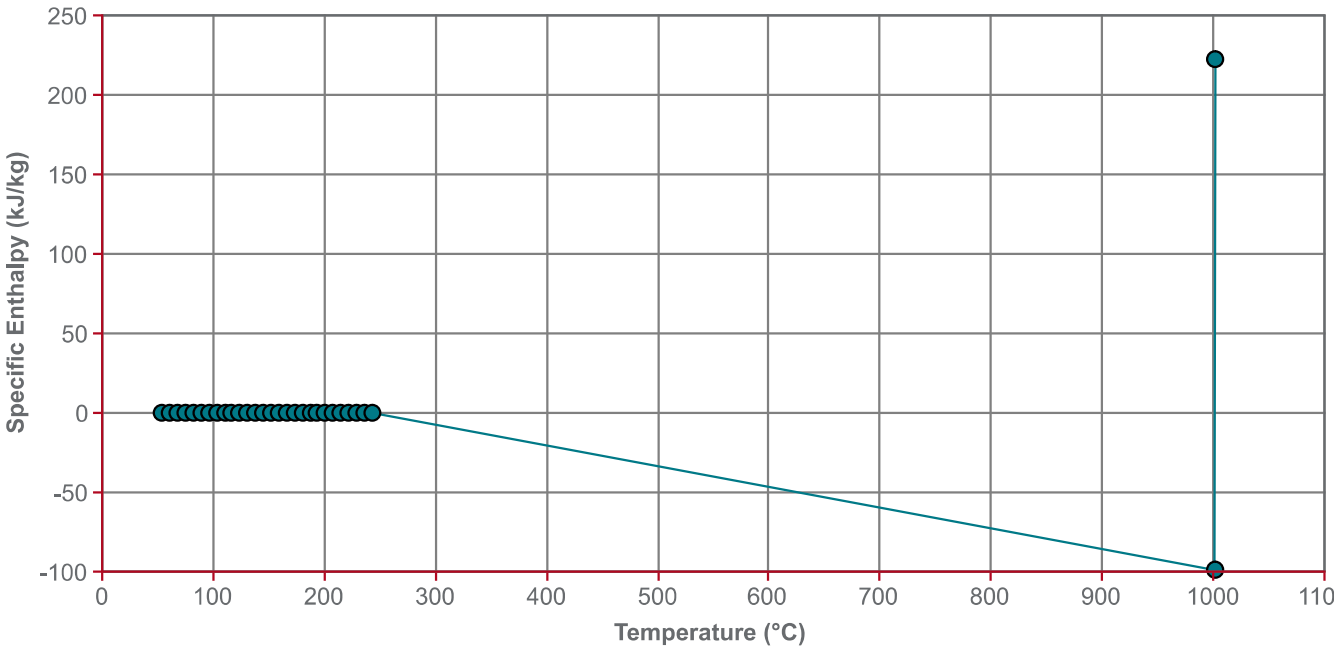
Isothermal Stress vs. Strain (ISO 11403-1)



Secant Modulus vs. Strain (ISO 11403-1)



Specific Heat vs. Temperature (ISO 11403-2)



Viscosity vs. Shear Rate (ISO 11403-2)

