

Technical Data

Product Description

Heat resistance

Application

Automotive Parts, Electrical & Electronic Parts

Material Type

PC/ABS

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E67171-100093014 • E515076-104348508
Search for UL Yellow Card	• LG Chem Ltd. • Lupoy®
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• Good Heat Resistance
Uses	• Automotive Applications • Electrical/Electronic Applications
Automotive Specifications	• CHRYSLER MS-DB-195 Type C CPN4263 • GM GMP.ABS+PC.002 • GM GMW15581P-ABS+PC-T3 • HYUNDAI MS214-02 • IMDS ID 5712256
Multi-Point Data	• 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)

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.14 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)		
250°C/2.16 kg	5.3 g/10 min	ASTM D1238
260°C/5.0 kg	21 g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.80 %	ASTM D955 ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2100 MPa	ISO 527-1/1
Tensile Strength		
Yield ³	56.9 MPa	ASTM D638
Yield	53.0 MPa	ISO 527-2/50
Tensile Elongation		
Break ³	> 100 %	ASTM D638
Break	110 %	ISO 527-2/50
Flexural Modulus		
3.20 mm ⁴	2110 MPa	ASTM D790
-- ⁵	2300 MPa	ISO 178
Flexural Strength		
3.20 mm ⁴	77.5 MPa	ASTM D790
-- ⁵	87.0 MPa	ISO 178



Lupoy® HR5007A

Polycarbonate + ABS

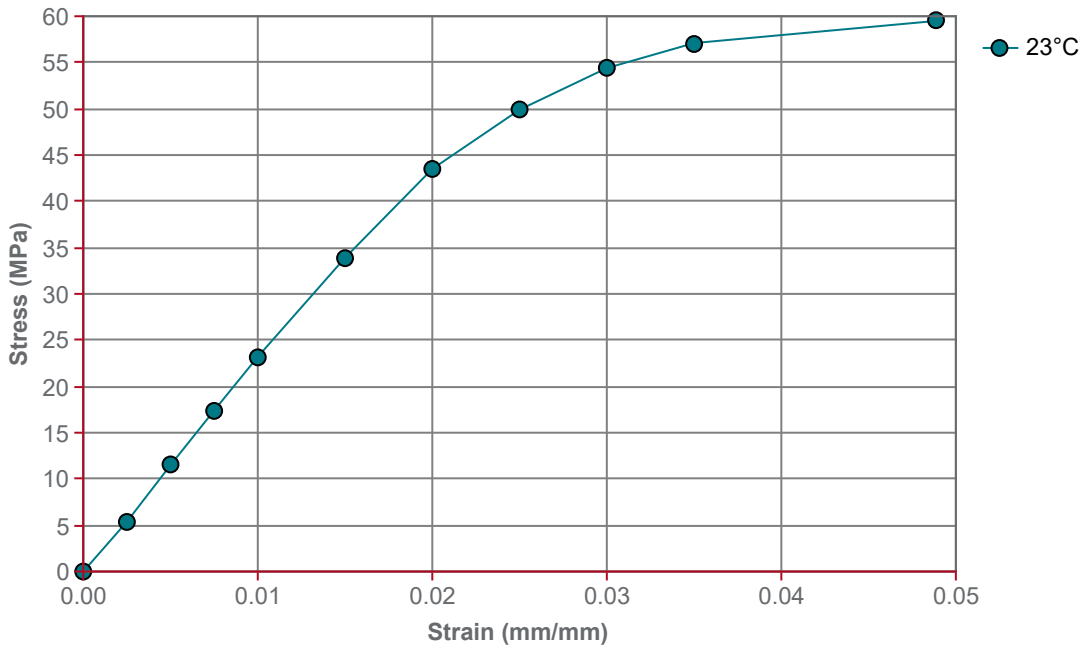
LG Chem Ltd.**PROSPECTOR®**

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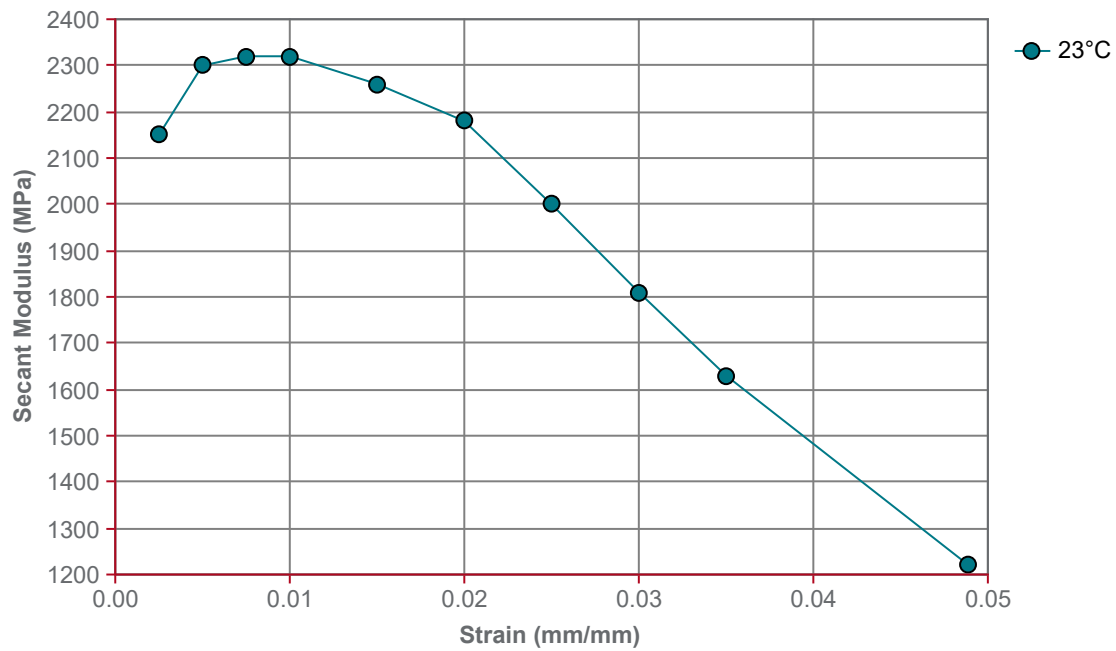
Impact	Nominal Value Unit	Test Method
Charpy Unnotched Impact Strength (-30°C)	No Break	ISO 179
Notched Izod Impact		
-30°C, 3.20 mm	490 J/m	ASTM D256
23°C, 3.20 mm	640 J/m	ASTM D256
-30°C	31 kJ/m ²	ISO 180
23°C	52 kJ/m ²	ISO 180
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	114	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 6.40 mm	113 °C	ASTM D648
1.8 MPa, Unannealed	107 °C	ISO 75-2/Af
Vicat Softening Temperature	128 °C	ISO 306/B50
RTI Elec	60.0 °C	UL 746B
RTI Imp	60.0 °C	UL 746B
RTI Str	60.0 °C	UL 746B
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.6 mm	HB	
3.0 mm	HB	
Injection	Nominal Value Unit	
Drying Temperature	80 to 100 °C	
Drying Time	4.0 to 6.0 hr	
Suggested Max Moisture	0.020 %	
Rear Temperature	240 to 270 °C	
Middle Temperature	245 to 275 °C	
Front Temperature	245 to 275 °C	
Nozzle Temperature	245 to 275 °C	
Processing (Melt) Temp	250 to 275 °C	
Mold Temperature	50 to 70 °C	
Screw Speed	40 to 70 rpm	



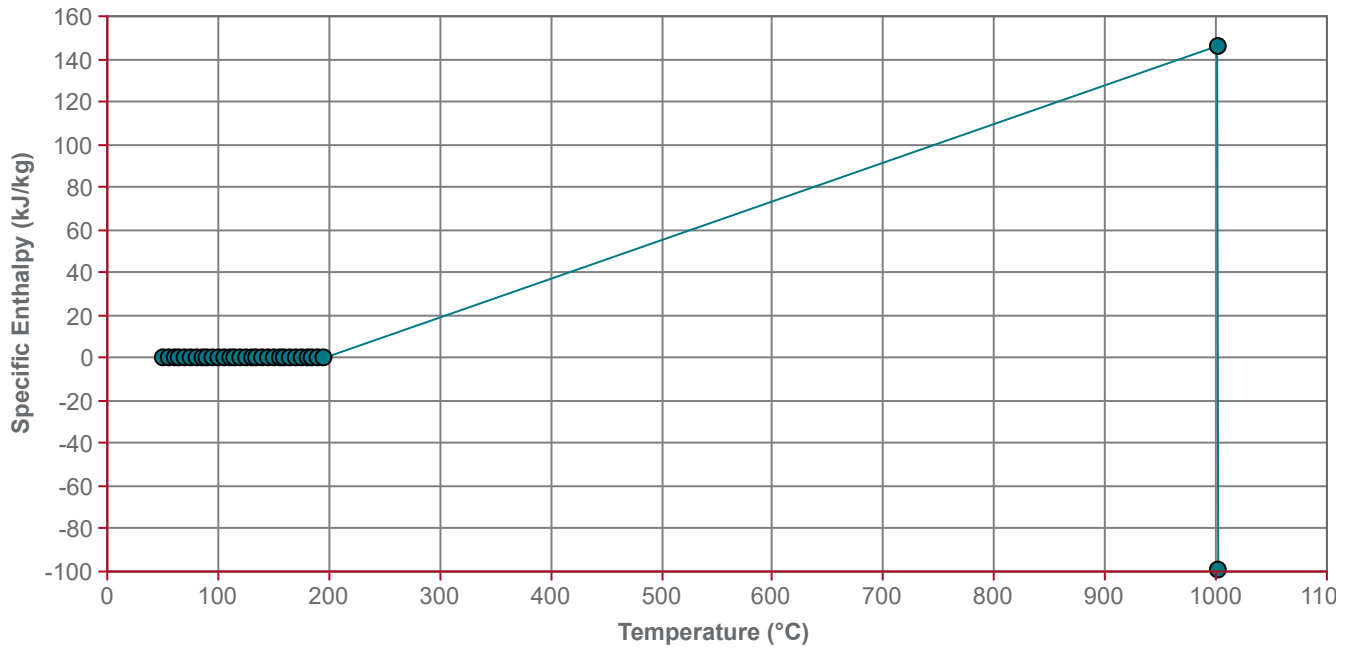
Isothermal Stress vs. Strain (ISO 11403-1)



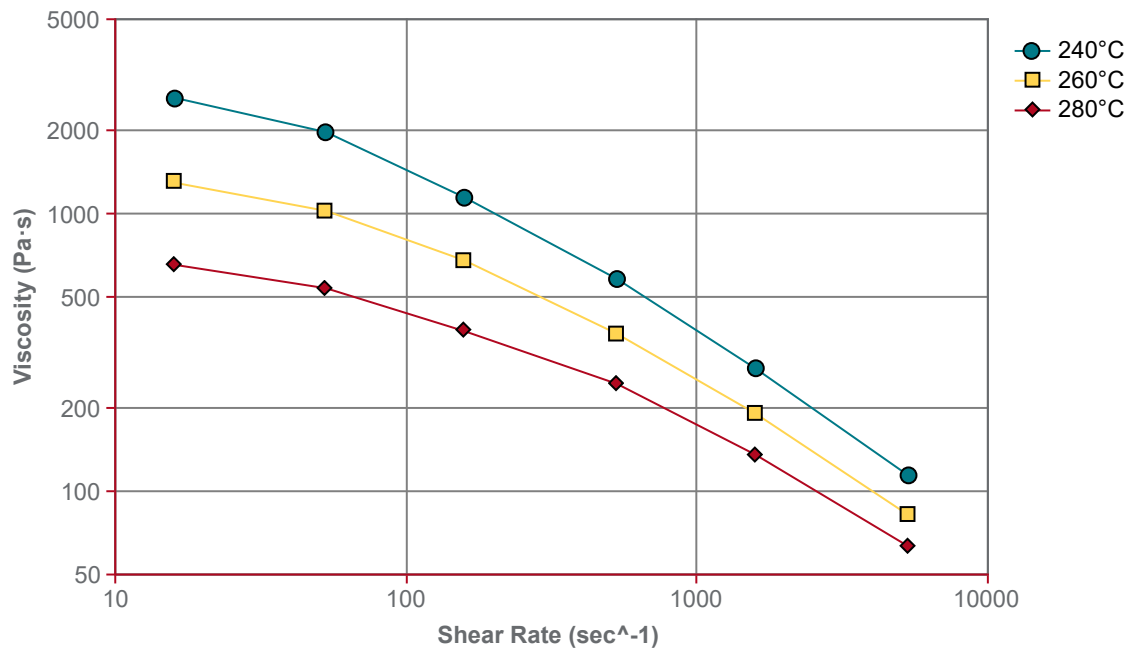
Secant Modulus vs. Strain (ISO 11403-1)



Specific Heat vs. Temperature (ISO 11403-2)



Viscosity vs. Shear Rate (ISO 11403-2)



Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ 50 mm/min

⁴ 10 mm/min

⁵ 2.0 mm/min



Where to Buy

Supplier**LG Chem Ltd.**

Englewood Cliffs, Englewood Cliffs USA

Telephone: 201-816-2302**Web:** <http://www.chemwide.com/>

Distributor**Channel Prime Alliance****Telephone:** 800-247-8038**Web:** <http://www.channelpa.com/>**Availability:** North America**Chase Plastic Services, Inc.***Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>***Telephone:** 800-232-4273**Web:** <http://www.chaseplastics.com/>**Availability:** North America**Conventus Polymers****Telephone:** 973-343-7669**Web:** <http://www.conventuspolymers.com/>**Availability:** North America**Distrupol Ltd***Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.***Telephone:** 08452003040**Web:** <http://www.distrupol.com/>**Availability:** Belgium, Denmark, Finland, Luxembourg, Netherlands, Norway, Sweden**GAZECHIM PLASTIQUES***GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.***Telephone:** +33-4-67-49-55-37**Web:** <http://www.gazechim.com/>**Availability:** Italy**Resin Resource, Inc.****Telephone:** 877-652-3431**Web:** <http://www.resinresourceinc.com/>**Availability:** North America**RESINEX Group***RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.***Telephone:** +32-14-672511**Web:** <http://www.resinex.com/>**Availability:** Europe**SNETOR Distribution***SNETOR Distribution is a Pan European distribution company. Contact SNETOR for availability of individual products by country.***Telephone:** +33-1-4904-8888**Web:** <http://www.snetor.com/>**Availability:** France