

LUPOY® EU5000W

LG Chem Ltd. - Polycarbonate + ASA

Wednesday, January 28, 2026

General Information

Product Description

UV Resistant, Good Flow

Application

Auto / Exterior / Roof Rack

Material Type

PC/ASA

General

Material Status	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> Asia Pacific 	<ul style="list-style-type: none"> Latin America 	<ul style="list-style-type: none"> North America
Features	<ul style="list-style-type: none"> Good Flow 	<ul style="list-style-type: none"> Good Weather Resistance 	
Uses	<ul style="list-style-type: none"> Automotive Applications 	<ul style="list-style-type: none"> Automotive Exterior Parts 	
Processing Method	<ul style="list-style-type: none"> Injection Molding 		
Multi-Point Data	<ul style="list-style-type: none"> Isothermal Stress vs. Strain (ISO 11403) Tensile Stress vs. Strain (ASTM D638) 		

Properties

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity			
-- 1	1.13	g/cm ³	ASTM D792
23°C	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
250°C/2.16 kg	8.6	g/10 min	ASTM D1238
260°C/5.0 kg	44	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 2.00 mm	0.60 to 0.80	%	ASTM D955
Across Flow : 2.00 mm	0.60 to 0.80	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ASTM D570
			ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
3.20 mm ²	1950	MPa	ASTM D638
4.00 mm	1900	MPa	ISO 527-1/1
Tensile Strength			
Yield, 3.20 mm ²	53.0	MPa	ASTM D638
Yield, 4.00 mm	51.0	MPa	ISO 527-2/50
Break, 3.20 mm ²	48.1	MPa	ASTM D638
Break, 4.00 mm	45.0	MPa	ISO 527-2/50

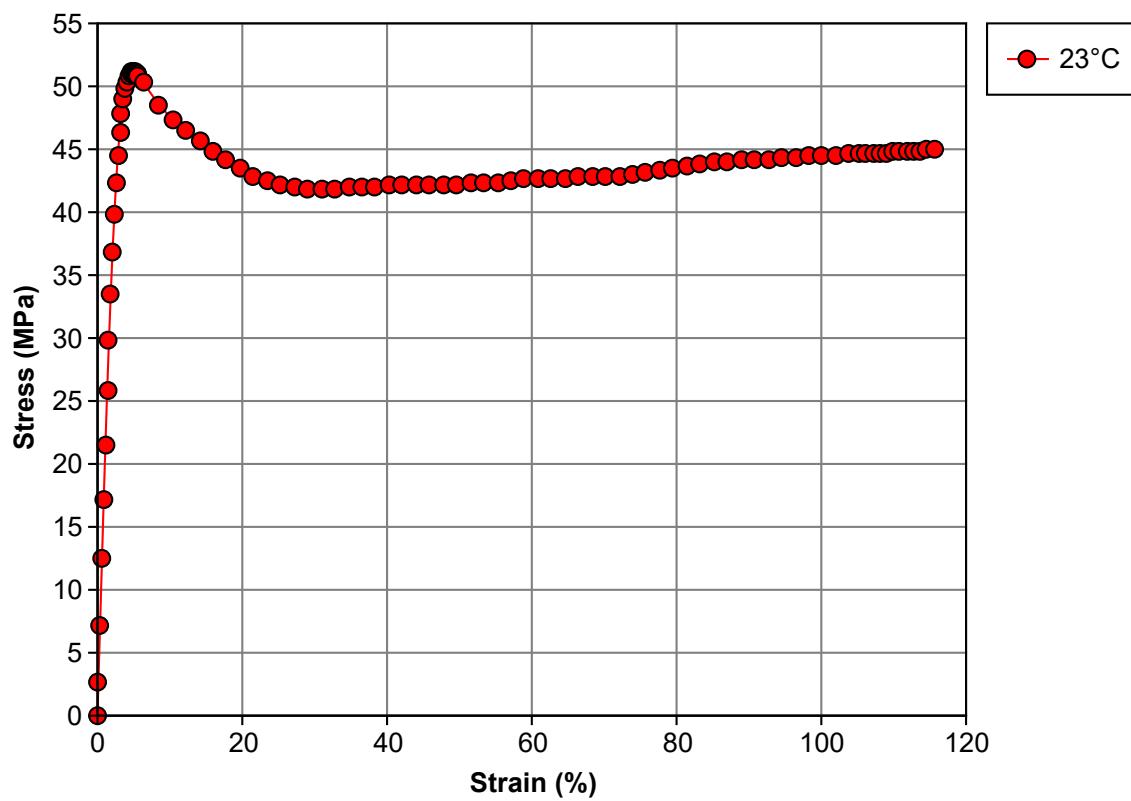
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Mechanical	Nominal Value	Unit	Test Method
Tensile Elongation			
Yield, 3.20 mm ²	5.0	%	ASTM D638
Yield, 4.00 mm	5.0	%	ISO 527-2/50
Break, 3.20 mm ²	120	%	ASTM D638
Break, 4.00 mm	120	%	ISO 527-2/50
Flexural Modulus			
3.20 mm ³	2010	MPa	ASTM D790
4.00 mm ⁴	2030	MPa	ISO 178
Flexural Strength			
3.20 mm ³	85.8	MPa	ASTM D790
4.00 mm ⁴	76.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C, 4.00 mm	11	kJ/m ²	
-30°C, 4.00 mm	17	kJ/m ²	
23°C, 4.00 mm	44	kJ/m ²	
Notched Izod Impact			
-40°C, 6.40 mm	110	J/m	ASTM D256
-30°C, 3.20 mm	130	J/m	ASTM D256
-30°C, 6.40 mm	120	J/m	ASTM D256
23°C, 3.20 mm	470	J/m	ASTM D256
23°C, 6.40 mm	230	J/m	ASTM D256
-40°C, 4.00 mm	11	kJ/m ²	ISO 180
-30°C, 4.00 mm	13	kJ/m ²	ISO 180
23°C, 4.00 mm	43	kJ/m ²	ISO 180
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785 ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm ⁵	122	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	117	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 6.40 mm ⁶	103	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	97.0	°C	ISO 75-2/Af
Vicat Softening Temperature ⁷	116	°C	ISO 306/B50 ASTM D1525 ⁸
CLTE			
Flow : -30 to 80°C	8.9E-5	cm/cm/°C	ASTM D696
Flow : -30 to 80°C	89	ppm/K	ISO 11359-2
Transverse : -30 to 80°C	9.2E-5	cm/cm/°C	ASTM D696
Transverse : -30 to 80°C	92	ppm/K	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity (23°C)	1.0E+15	ohms	ASTM D257
Volume Resistivity (23°C)	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (23°C, 2000 µm)	19	kV/mm	ASTM D149
Dielectric Constant (23°C)	2.80		ASTM D150

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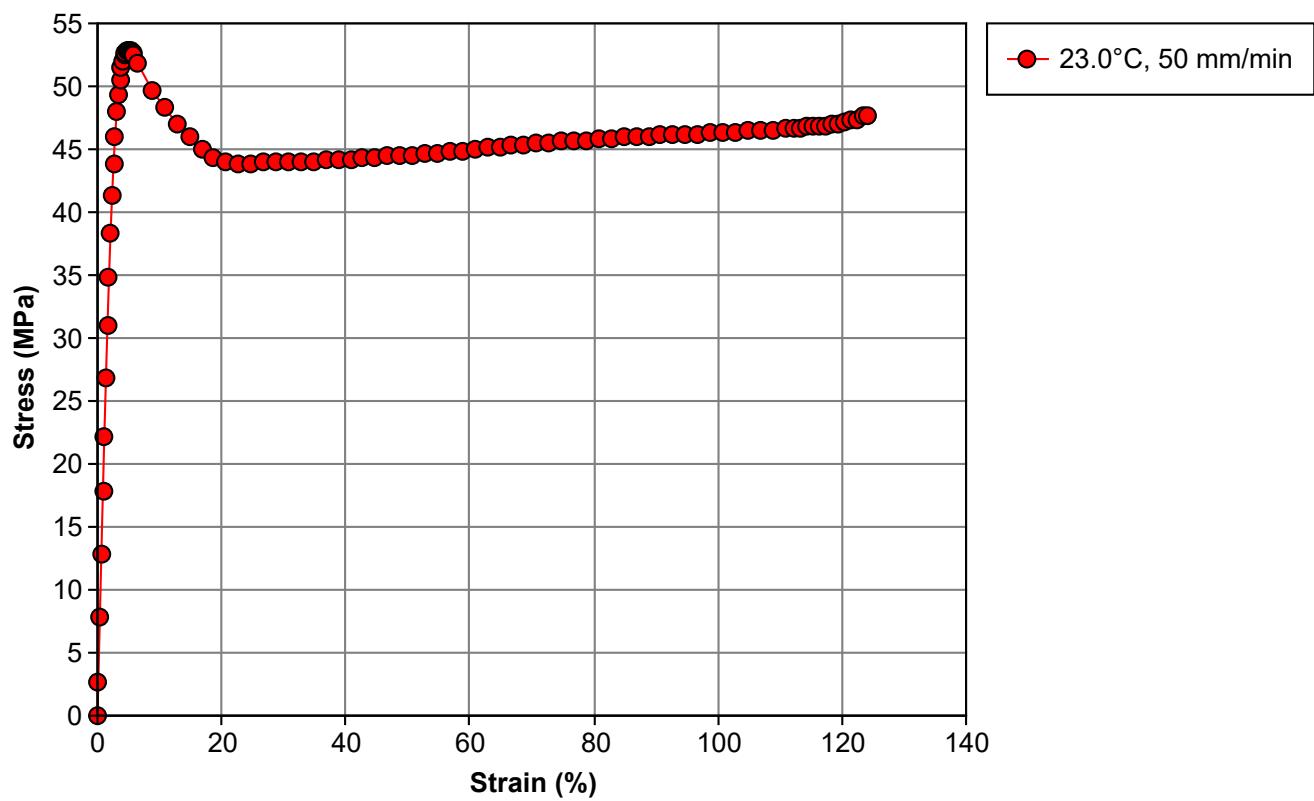
Isothermal Stress vs. Strain (ISO 11403)



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Tensile Stress vs. Strain (ASTM D638)



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Processing Information

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
Back Pressure	0.490 to 1.47	MPa
Screw Speed	40 to 70	rpm

Notes

¹ 23°C

² 50 mm/min

³ 10 mm/min

⁴ 2.0 mm/min

⁵ 4.6kgf

⁶ 18.6kgf

⁷ 5kg

⁸ Rate A (50°C/h)