

Lucel® N109WR

Acetal (POM) Copolymer

LG Chem Ltd.

Message:

Lucel®N109WR is a polyoxymethylene (POM) copolymer material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

Lucel®The main features of N109WR are:

flame retardant/rated flame

chemical resistance

Lucel®Typical application areas of N109WR are: automotive industry

General Information			
UL YellowCard	E67171-248306		
Features	Good chemical resistance		
Uses	Parts under the hood of a car		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.8 - 2.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	82		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	60.8	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	65	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	2550	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	89.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, annealed, 6.40mm	160	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	110	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity (23°C)	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	24	kV/mm	ASTM D149
Dissipation Factor (1 MHz)	3.8E-4		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.710 mm	HB		UL 94
1.50 mm	HB		UL 94
3.00 mm	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	90.0 - 110	°C
Drying Time	3.0 - 6.0	hr
Rear Temperature	160 - 180	°C
Middle Temperature	180 - 200	°C
Front Temperature	190 - 200	°C
Nozzle Temperature	190 - 200	°C
Processing (Melt) Temp	190 - 200	°C
Mold Temperature	60.0 - 80.0	°C
Back Pressure	4.02 - 8.04	MPa
Screw Speed	50 - 100	rpm

Injection instructions

Minimum Moisture Content: 0.1%

NOTE

1. 50 mm/min
2. 50 mm/min
3. 1.3 mm/min
4. 1.3 mm/min

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