

Lupol® TE5109

Polypropylene

LG Chem Ltd.

Message:

Lupol® TE5109 is a Polypropylene material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Lupol® TE5109 are:

Good Weather Resistance

Impact Modified

Impact Resistant

Typical application of Lupol® TE5109: Automotive

General Information			
Additive	Impact Modifier		
Features	Good Weather Resistance		
	High Impact Resistance		
	Impact Modified		
Uses	Automotive Bumper		
	Automotive Exterior Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.968 to 0.988	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.70 to 1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	17.7	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	150	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	1420	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	26.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 6.40 mm	71	J/m	
23°C, 6.40 mm	460	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	115	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	3.0 to 4.0	hr	
Minimum Moisture Content	0.010	%	

Rear Temperature	190 to 210	°C
Middle Temperature	200 to 230	°C
Front Temperature	200 to 230	°C
Nozzle Temperature	210 to 230	°C
Processing (Melt) Temp	200 to 230	°C
Mold Temperature	40.0 to 60.0	°C
Back Pressure	29.4 to 58.8	MPa
Screw Speed	30 to 60	rpm

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 10 mm/min |
| 4. | 10 mm/min |

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Recommended distributors for this material

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