

MAJORIS POM GRIS 8109

Acetal (POM) Homopolymer

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Message:

POM GRIS 8109 is a polyoxymethylene for injection molding.

POM GRIS 8109 is used for injection molding applications in the automotive engineering and electrical industries. Moreover, it is available in a large variety of colors to answer the requests of the various markets.

General Information			
Uses	Automotive Applications		
Appearance	Colors Available		
	Grey		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ISO 1133
Water Absorption			ISO 62
23°C, 24 hr	0.65	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	144	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Yield)	32.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	9.0	%	ISO 527-2/50
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress (3.5% Strain)	67.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-30°C	5.5	kJ/m ²	
23°C	5.5	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	104	°C	ISO 75-2/A
Vicat Softening Temperature	151	°C	ISO 306/B50
Melting Temperature (DSC)	166	°C	ISO 3146
CLTE - Flow (23 to 80°C)	1.2E-4	cm/cm/°C	DIN 52328
Electrical	Nominal Value	Unit	Test Method

Electric Strength	35	kV/mm	IEC 60243-1
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	80.0 to 110	°C	
Injection Pressure	60.0 to 200	MPa	
Back Pressure	0.00 to 2.00	MPa	

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