

MAJORIS UG407 - 8229

Polyamide 66

AD majoris

Message:

MAJORIS UG407 - 8229 is a special 40 % long glass fibre reinforced polyamide 66 UV stabilised intended for Injection moulding.

APPLICATIONS

MAJORIS UG407 - 8229 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

General Information			
Filler / Reinforcement	Long Glass Fiber,40% Filler by Weight		
Additive	UV Stabilizer		
Features	Good UV Resistance		
	Recyclable Material		
Uses	Automotive Applications		
	Electrical Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Molding Shrinkage	0.30 to 0.60	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17000	MPa	ISO 527-2
Tensile Stress (Break)	250	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	14000	MPa	ISO 178
Flexural Stress	375	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	48	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	263	°C	ISO 75-2/A
Melting Temperature (DSC)	256	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	DIN 53482
Volume Resistivity	1.0E+14	ohms · cm	DIN 53482
Comparative Tracking Index (Solution A)	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (1.60 mm)	650	°C	IEC 60695-2-12
Oxygen Index	23	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0	hr	
Rear Temperature	290 to 305	°C	
Middle Temperature	285 to 300	°C	
Front Temperature	280 to 295	°C	
Nozzle Temperature	275 to 280	°C	
Mold Temperature	90.0 to 120	°C	
Injection Pressure	95.0 to 120	MPa	
Injection Rate	Fast		
Holding Pressure	60.0 to 80.0	MPa	
Screw L/D Ratio	15.0:1.0 to 20.0:1.0		

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