

MAJORIS UG600 - 8229

Polyamide 66

AD majoris

Message:

MAJORIS UG600 - 8229 is a special 60% long glass fibre reinforced polyamide 66 intended for Injection moulding.

APPLICATIONS

MAJORIS UG600 - 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,60% Filler by Weight			
Features	Recyclable Material			
Uses	Automotive Applications			
	Electrical Parts			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.70	--	g/cm ³	ISO 1183
Molding Shrinkage	0.20 to 0.50	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.90	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	22500	20900	MPa	ISO 527-2
Tensile Stress (Break)	240	225	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.1	%	ISO 527-2
Flexural Modulus	19100	17600	MPa	ISO 178
Flexural Stress	403	386	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	21	22	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	84	85	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	260	--	°C	ISO 75-2/A
Melting Temperature (DSC)	256	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+12	ohms · cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112

Flammability	Dry	Conditioned	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	Dry	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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