MAJORIS UG400 - 8229

Polyamide 66

AD majoris

Message:

MAJORIS UG400 - 8229 is a special 40 % long glass fibre reinforced polyamide 66 intended for Injection moulding.
APPLICATIONS
MAJORIS UG400 - 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		
Features	Recyclable Material		
Uses	Automotive Applications Electrical Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.46	g/cm³	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/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	48	kJ/m²	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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