

# MAJORIS HPS G400 - 8229

Polyphenylene Sulfide

AD majoris

## Message:

MAJORIS HPS G400 - 8229 is a 40 % glass fibre reinforced polyphenylene sulfide, intended for injection moulding. The product is available in black.

They combine high mechanical, thermal and electrical properties with excellent chemical and oxidation resistance, lower shrinkage.

This product is inherently flame retardant UL 94: V0.

## APPLICATIONS

MAJORIS HPS G400 - 8229 is intended for the injection moulding of electrical components and automotive applications including interior, electrical and mechanical systems, such as:

Electrical appliance components

Under the bonnet automotive components

Lighting system

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Electrical Properties		
	Oxidation Resistant		
	Recyclable Material		
Uses	Appliance Components		
	Automotive Electronics		
	Automotive Interior Parts		
	Automotive Under the Hood		
	Electrical Parts		
	Lighting Applications		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.62	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.20 to 0.60	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14500	MPa	ISO 527-2/1
Tensile Stress (Yield)	195	MPa	ISO 527-2/50
Flexural Modulus <sup>1</sup>	13000	MPa	ISO 178
Flexural Stress	233	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m <sup>2</sup>	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	47	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	266	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	24	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	5.30		IEC 60250
Dissipation Factor (1 MHz)	1.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	320 to 340	°C	
Mold Temperature	140 to 160	°C	
NOTE			
1.	2.0 mm/min		

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