

MAJORIS HPS X790

Polyphenylene Sulfide

AD majoris

Message:

MAJORIS HPS X790 is a greyish, mineral filled high density polyphenylene sulfide compound intended for injection moulding, metallic aspect (only grey colour possible).

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 X790 is intended for the injection moulding of electrical components and automotive applications including electrical and mechanical systems, such as:

Electrical appliance components

Under the bonnet automotive components

Ballast

General Information			
Filler / Reinforcement	Mineral		
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Electrical Properties		
	High Density		
	Oxidation Resistant		
	Recyclable Material		
Uses	Appliance Components		
	Automotive Electronics		
	Automotive Under the Hood		
	Electrical Parts		
Appearance	Grey		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	5.00	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 2.00 mm	0.60	%	
Flow : 2.00 mm	0.52	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5500	MPa	ISO 527-2/1
Tensile Stress (Yield)	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	1.6	%	ISO 527-2
Flexural Modulus ¹	5350	MPa	ISO 178
Flexural Stress	93.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	19	kJ/m ²	ISO 179/1eU
Flammability	Nominal Value	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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