

VENYL SFRHG300R

Polyamide 6

AD majoris

Message:

VENYL SFRHG300R is a halogen flame retardant compounds UL 94 V0 (conform 2002/95/EC, RoHS directive) 30 % glass fibre reinforced polyamide 6 intended for Injection moulding.

APPLICATIONS

VENYL SFRHG300R has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL SFRHG300R is available in black (VENYL SFRHG300R-8229) but other colours can be provided on request.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogenated		
		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
		Colors Available		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.54	--	g/cm ³	ISO 1183
Molding Shrinkage	0.30 to 0.70	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7000	5500	MPa	ISO 527-2
Tensile Stress (Break)	140	45.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	3.5	%	ISO 527-2
Flexural Modulus	7500	4500	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	14	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-0	--		UL 94
Glow Wire Flammability Index (1.60 mm)	960	--	°C	IEC 60695-2-12
Oxygen Index	29	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Rear Temperature	270 to 285		°C	
Middle Temperature	265 to 280		°C	
Front Temperature	260 to 285		°C	
Nozzle Temperature	265 to 280		°C	
Mold Temperature	80.0 to 100		°C	
Injection Pressure	85.0 to 110		MPa	
Injection Rate	Fast			
Holding Pressure	50.0 to 70.0		MPa	
Screw L/D Ratio	15.0:1.0 to 20.0:1.0			

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