

VENYL SFRH000R

Polyamide 6

AD majoris

Message:

VENYL SFRH000R is a halogen flame retardant compounds UL 94 V0 (conform 2002/95/EC, RoHS directive) polyamide 6 intended for injection moulding.

APPLICATIONS

VENYL SFRH000R has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL SFRH000R is available in black (VENYL SFRH000R-8229) but other colours can be provided on request.

General Information			
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	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Molding Shrinkage	0.80 to 1.3	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	3.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3700	MPa	ISO 527-2
Tensile Stress (Break)	75.0	MPa	ISO 527-2
Tensile Strain (Break)	7.0	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress ¹	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	170	°C	ISO 75-2/B

1.8 MPa, Unannealed	90.0	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	775	°C	
2.00 mm	775	°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Rear Temperature	250 to 270	°C	
Middle Temperature	245 to 260	°C	
Front Temperature	245 to 260	°C	
Nozzle Temperature	225 to 270	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Pressure	75.0 to 95.0	MPa	
Injection Rate	Fast		
Holding Pressure	40.0 to 65.0	MPa	
Screw L/D Ratio	15.0:1.0 to 20.0:1.0		
NOTE			

1. at Break

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