

VENYL SFR003

Polyamide 6

AD majoris

Message:

VENYL SFR003 is a halogen free flame retardant compounds polyamide 6, UL 94 V0, intended for Injection moulding.

APPLICATIONS

VENYL SFR003 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL SFR003 is available in black (VENYL SFR003-8229) but other colours can be provided on request.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Recyclable Material		
Uses	Automotive Applications		
	Electrical Parts		
Appearance	Black		
	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Molding Shrinkage	0.90 to 1.2	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.3	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3800	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	15	%	ISO 527-2
Flexural Modulus	3500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	40	J/m	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	180	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method

Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	750	°C	IEC 60695-2-13
Oxygen Index	31	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Rear Temperature	235 to 240	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	250 to 260	°C	
Nozzle Temperature	250 to 260	°C	
Mold Temperature	80.0 to 100	°C	
Injection Pressure	80.0 to 100	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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