

VENYL UFRG204

Polyamide 66

AD majoris

Message:

VENYL UFRG204 is a halogen free flame retardant compounds UL 94 V0 with 25 % glass fibre reinforced polyamide 66 intended for Injection moulding.

APPLICATIONS

VENYL UFRG204 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL UFRG204 is available in black (VENYL UFRG204 - 8229) but other colours can be provided on request.

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
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	1.35	g/cm ³	ISO 1183
Molding Shrinkage	0.50 to 0.90	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.80	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5500	MPa	ISO 527-2
Tensile Stress (Break)	95.8	MPa	ISO 527-2
Tensile Strain (Break)	2.2	%	ISO 527-2
Flexural Modulus	6350	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	33	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	253	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	°C	ISO 75-2/A
Melting Temperature (DSC)	256	°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 (0.800 mm)	V-0		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	775	°C	
2.00 mm	775	°C	
Oxygen Index	29	%	ISO 4589-2
Injection	Nominal Value	Unit	
Rear Temperature	270 to 285	°C	
Middle Temperature	265 to 280	°C	
Front Temperature	265 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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