

VENYL UFRG308

Polyamide 66

AD majoris

Message:

VENYL UFRG308 is a halogen free flame retardant compounds UL 94 V0 with 35 % glass fibre reinforced polyamide 66 intended for Injection moulding.

APPLICATIONS

VENYL UFRG308 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL UFRG304 is available in natural and black (VENYL UFRG308 - 8229) but other colours can be provided on request.

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Recyclable Material		
Uses	Automotive Applications		
	Electrical Parts		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage	0.40 to 0.70	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10100	MPa	ISO 527-2
Tensile Stress (Break)	103	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	8850	MPa	ISO 178
Flexural Stress	183	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)	42	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	254	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	°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
Oxygen Index	28	%	ISO 4589-2
Injection	Nominal Value	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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