

VENYL UFRT303

Polyamide 66

AD majoris

Message:

VENYL UFRT303 is a 30% mineral filled polyamide 66, free halogen flame retardant UL 94 V2 intended for Injection moulding.

APPLICATIONS

VENYL UFRT303 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL UFRT303 is available in black (VENYL UFRT303 BLACK 8229) but other colours can be provided on request.

General Information			
Filler / Reinforcement	Mineral,30% 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	1.38	g/cm ³	ISO 1183
Molding Shrinkage	0.50 to 0.90	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5500	MPa	ISO 527-2
Tensile Stress (Break)	75.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	6500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	240	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°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 (1.60 mm)	V-2		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Oxygen Index	30	%	ISO 4589-2
Injection	Nominal Value	Unit	
Rear Temperature	290 to 295	°C	
Middle Temperature	275 to 290	°C	
Front Temperature	270 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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