

VENYL SFRHWGT300H - 8229

Polyamide 6

AD majoris

Message:

VENYL SFRHWGT300H - 8229 is a 30% glass fibre/mineral reinforced polyamide 6 (UL 94 V2 at 1,6 mm) intended for Injection moulding.

APPLICATIONS

VENYL SFRHWGT300H - 8229 has been developed especially for very demanding applications in automotive industry where fire resistance is needed.

VENYL SFRHWGT300H - 8229 is available in black but other colours can be provided on request.

General Information				
Filler / Reinforcement		Glass\Mineral,30% Filler by Weight		
Features		Flame Retardant		
		Recyclable Material		
Uses		Automotive Applications		
Appearance		Black		
		Colors Available		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm ³	ISO 1183
Molding Shrinkage	0.60 to 1.2	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8400	6900	MPa	ISO 527-2
Tensile Stress (Break)	105	88.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	2.4	%	ISO 527-2
Flexural Modulus	6100	5000	MPa	ISO 178
Flexural Stress	142	130	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	34	40	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	180	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	DIN 53482
Volume Resistivity	1.0E+14	1.0E+12	ohms·cm	DIN 53482
Comparative Tracking Index (Solution A)	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
3.20 mm	HB	--		
1.60 mm	V-2	--		
Additional Information	Dry	Conditioned		
Horizontal Flame Test ¹	B	--		
Injection	Dry	Unit		
Rear Temperature	240 to 255		°C	
Middle Temperature	250 to 260		°C	
Front Temperature	260 to 270		°C	
Nozzle Temperature	245 to 270		°C	
Mold Temperature	90.0 to 120		°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			
NOTE				

1. Test Method: D45 1333
(PSA norm)

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