

VENYL UFRHGR208R - 8229

Polyamide 66
AD majoris

Message:

VENYL UFRHGR208R - 8229 is a halogen flame retardant compounds UL 94 V0 (RoHS conform) 25% glass fibre reinforced polyamide 66 intended for Injection moulding.

APPLICATIONS

VENYL UFRHGR208R - 8229 has been developed especially for very demanding applications in automotive industry and electrical parts. Products requiring excellent combination between thermal and mechanical properties.

VENYL UFRHGR208R - 8229 is available in natural (VENYL UFRHGR208R) but other colours can be provided on request.

General Information				
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogenated		
		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
RoHS Compliance		RoHS Compliant		
Appearance		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.49	--	g/cm ³	ISO 1183
Molding Shrinkage	0.60 to 1.0	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4800	3900	MPa	ISO 527-2
Tensile Stress (Break)	120	70.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Flexural Modulus	5500	4400	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	20	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	253	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	244	--	°C	ISO 75-2/A
Melting Temperature (DSC)	256	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	450	--	V	IEC 60112
Flammability	Dry	Conditioned	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
Oxygen Index	29	--	%	ISO 4589-2
Injection	Dry	Unit		
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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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