

VENYL UG400

Polyamide 66

AD majoris

Message:

VENYL UG400 is a 40 % glass fibre reinforced polyamide 66 intended for Injection moulding.

APPLICATIONS

VENYL UG400 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL UG400 is available in both natural and black (VENYL UG400-8229) but other colours can be provided on request.

General Information				
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Features		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
Appearance		Black		
		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.44	--	g/cm ³	ISO 1183
Molding Shrinkage	0.50	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (L-Scale)	110	108		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	7750	MPa	ISO 527-2
Tensile Stress (Break)	225	160	MPa	ISO 527-2
Tensile Strain (Break)	3.0	3.0	%	ISO 527-2
Flexural Modulus	10800	8500	MPa	ISO 178
Flexural Stress	300	265	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	11	15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	45	55	kJ/m ²	ISO 179
Notched Izod Impact	110	160	J/m	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	255	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	246	--	°C	ISO 75-2/A
Melting Temperature (DSC)	256	--	°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)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	650	--	°C	IEC 60695-2-12
Oxygen Index	23	--	%	ISO 4589-2
Injection	Dry	Unit		
Rear Temperature	285 to 300		°C	
Middle Temperature	280 to 295		°C	
Front Temperature	275 to 290		°C	
Nozzle Temperature	265 to 280		°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			

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