VENYL UG370

Polyamide 66

AD majoris

Message:

VENYL UG370 is a polyamide 66 glass fibre reinforced with medium viscosity intended for injection moulding, which offers a low coefficient of friction.
APPLICATIONS
VENYL UG370 has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between thermal and mechanical properties.
VENYL UG370 offers better lubricated and a lower coefficient of friction.
VENYL UG370 is available in both black/grey.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Low Friction Medium Viscosity Recyclable Material		
Uses	Automotive Applications Electrical Parts		
Appearance	Black Grey		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.37	g/cm^3	ISO 1183
Molding Shrinkage	0.50 to 0.80	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.6	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (L-Scale)	105		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8500 to 9000	MPa	ISO 527-2
Tensile Stress (Break)	175 to 200	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	7750 to 8250	MPa	ISO 178
Flexural Stress	230 to 260	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	7.0 to 9.0	kJ/m^2	ISO 179
Charpy Unnotched Impact Strength	30 to 35	kJ/m^2	ISO 179
Notched Izod Impact	90 to 95	J/m	ISO 180

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	255	°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**
Surface Resistivity	1.0E+13	ohms	DIN 53482
Volume Resistivity	1.0E+14	ohms·cm	DIN 53482
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12
Injection	**Nominal Value**	**Unit**	
Drying Temperature	100	°C	
Drying Time	4.0	hr	
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		

Recommended distributors for this material

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