VENYL SG309 - 1773

Polyamide 6

AD majoris

Message:

VENYL SG309 - 1773 is a 30 % glass fibre reinforced polyamide 6 intended for Injection moulding. This product is lubrificated and has good flow properties.
APPLICATIONS
VENYL SG309 - 1773 has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between thermal and mechanical properties.
VENYL SG309 - 1773 is available in both beige and natural (VENYL SG309) but other colours can be provided on request.

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Lubricant
Features	Good Flow Lubricated Recyclable Material
Uses	Automotive Applications Electrical Parts
Appearance	Beige Colors Available Natural Color
Forms	Pellets
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm³	ISO 1183
Molding Shrinkage	0.40 to 0.80	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (L-Scale)	105	--		ASTM D785

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	5800	MPa	ISO 527-2
Tensile Stress (Break)	170	100	MPa	ISO 527-2
Tensile Strain (Break)	3.5	4.0	%	ISO 527-2
Flexural Modulus	7500	4600	MPa	ISO 178
Flexural Stress	240	155	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength	12	18	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	40	50	kJ/m²	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	200	--	°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 (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	650	--	°C	IEC 60695-2-12
Injection	**Dry**	**Unit**		
Rear Temperature	245 to 265		°C	
Middle Temperature	250 to 270		°C	
Front Temperature	255 to 275		°C	
Nozzle Temperature	255 to 275		°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			

Recommended distributors for this material

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