VENYL SG407 - 7731

Polyamide 6

AD majoris

Message:

VENYL SG407 - 7731 is a 40 % glass fibre reinforced polyamide 6 intended for Injection moulding.
APPLICATIONS
VENYL SG407 - 7731 has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between thermal and mechanical properties.
VENYL SG407 - 7731 is available in both grey and natural (VENYL SG407) 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	Colors Available Grey Natural Color			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.43	--	g/cm³	ISO 1183
Molding Shrinkage	0.30 to 0.70	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness (L-Scale)	106	--		ASTM D785
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	10500	6000	MPa	ISO 527-2
Tensile Stress (Break)	195	120	MPa	ISO 527-2
Tensile Strain (Break)	3.0	3.5	%	ISO 527-2
Flexural Modulus	9500	5900	MPa	ISO 178
Flexural Stress	300	230	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	16	23	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	50	60	kJ/m²	ISO 179
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**

Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	--	°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	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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