VENYL SWGT409H - 8229

Polyamide 6

AD majoris

Message:

VENYL SWGT409H - 8229 is a 40% glass fiber/mineral filled polyamide 6 medium viscosity intended for Injection moulding.
APPLICATIONS
VENYL SWGT409H - 8229 has been developed especially for very demanding applications in automotive industry and electrical parts.
VENYL SWGT409H - 8229 is available in both black and natural (VENYL SWGT409H) but other colours can be provided on request.

General Information			
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Features	Medium Viscosity Recyclable Material		
Uses	Automotive Applications Electrical Parts		
Appearance	Black Colors Available Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.47	g/cm³	ISO 1183
Molding Shrinkage	0.40 to 0.80	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	170	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	7400	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	6.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	30	kJ/m²	ISO 179
Thermal	**Nominal Value**	**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	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	DIN 53482
Volume Resistivity	1.0E+14	ohms·cm	DIN 53482
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.60 mm)	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	100	°C	
Drying Time	4.0	hr	
Rear Temperature	265 to 280	°C	
Middle Temperature	255 to 270	°C	
Front Temperature	255 to 270	°C	
Nozzle Temperature	240 to 275	°C	
Mold Temperature	60.0 to 100	°C	
Injection Pressure	60.0 to 90.0	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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