

# VENYL SW300 - 8229

Polyamide 6

AD majoris

Message:

VENYL SW300 - 8229 is a 30% glass bead filled polyamide 6 intended for Injection moulding.

APPLICATIONS

VENYL SW300 - 8229 has been developed especially for very demanding applications in automotive industry and electrical parts.

General Information				
Filler / Reinforcement		Glass Bead,30% Filler by Weight		
Features		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.70 to 1.2	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3900	1200	MPa	ISO 527-2
Tensile Stress (Break)	75.0	40.0	MPa	ISO 527-2
Tensile Strain (Break)	10	30	%	ISO 527-2
Flexural Modulus	3600	1100	MPa	ISO 178
Flexural Stress	140	65.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.5	12	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	70 kJ/m <sup>2</sup>	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	190	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	180	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+14	1.0E+12	ohms · cm	DIN 53482
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94

Injection	Dry	Unit
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	

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