

# VENYL ST300 - 8229

Polyamide 6

AD majoris

Message:

VENYL ST300 - 8229 is a 30 % mineral filled polyamide 6 intended for Injection moulding.

APPLICATIONS

VENYL ST300 - 8229 has been developed especially for very demanding applications in automotive industry and electrical parts.

VENYL ST300 - 8229 is available in both black and natural (VENYL ST300) but other colours can be provided on request.

General Information				
Filler / Reinforcement		Mineral,30% Filler by Weight		
Features		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
Appearance		Black		
		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.60 to 1.0	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.9	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6500	3000	MPa	ISO 527-2
Tensile Stress (Break)	75.0	45.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	10	%	ISO 527-2
Flexural Modulus	5000	2500	MPa	ISO 178
Flexural Stress	145	80.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.0	9.0	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	30	70	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact	40	50	J/m	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	205	--	°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
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	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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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

