

VENYL SN002 - 7847

Polyamide 6

AD majoris

Message:

VENYL SN002 - 7847 is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in Europe.

Characteristics include:

Flame Rated

Eco-Friendly/Green

General Information				
Features		Recyclable Material		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage	0.50 to 1.5	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.8 to 3.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (L-Scale)	100	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	1100	MPa	ISO 527-2
Tensile Stress (Break)	85.0	65.0	MPa	ISO 527-2
Tensile Strain (Break)	50	200	%	ISO 527-2
Flexural Modulus	2700	900	MPa	ISO 178
Flexural Stress	130	65.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.0	40	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	50	150	J/m	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	170	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	DIN 53482
Volume Resistivity	1.0E+15	1.0E+12	ohms · cm	DIN 53482

Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-2	--		UL 94
Glow Wire Flammability Index (2.00 mm)	750	--	°C	IEC 60695-2-12
Oxygen Index	26	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Rear Temperature	250 to 270		°C	
Middle Temperature	240 to 255		°C	
Front Temperature	240 to 255		°C	
Nozzle Temperature	220 to 265		°C	
Mold Temperature	50.0 to 70.0		°C	
Injection Pressure	70.0 to 90.0		MPa	
Injection Rate	Fast			
Holding Pressure	35.0 to 60.0		MPa	
Screw L/D Ratio	15.0:1.0 to 20.0:1.0			

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Recommended distributors for this material

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

