

# VENYL SW107 - 7727

Polyamide 6

AD majoris

## Message:

VENYL SW107 - 7727 is a Polyamide 6 (Nylon 6) product filled with 15% glass bead. It can be processed by injection molding and is available in Europe. Characteristics include:  
Flame Rated  
Eco-Friendly/Green  
Good UV Resistance  
UV Stabilized

General Information				
Filler / Reinforcement		Glass Bead,15% Filler by Weight		
Additive		UV Stabilizer		
Features		Good UV Resistance		
		Recyclable Material		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.60 to 1.2	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3500	1150	MPa	ISO 527-2
Tensile Stress (Break)	80.0	52.0	MPa	ISO 527-2
Tensile Strain (Break)	30	120	%	ISO 527-2
Flexural Modulus	3150	1000	MPa	ISO 178
Flexural Stress	138	72.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.7	26	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	130	--	°C	ISO 75-2/A
Peak Melting Temperature	220	--	°C	ASTM D2117
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				UL 94
1.59 mm	HB	--		
3.18 mm	HB	--		
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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#### Recommended distributors for this material

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