VENYL SN007 - 8139

Polyamide 6

AD majoris

Message:

VENYL SN007 - 8139 is a standard coloured polyamide 6 intended for Injection moulding.
APPLICATIONS
VENYL SN007 - 8139 has been developed especially for very demanding applications in automotive industry and electrical parts requiring excellent combination between thermal and mechanical properties.
VENYL SN007 - 8139 is also available in other colours on request.

General Information				
Features	Recyclable Material			
Uses	Automotive Applications Electrical Parts			
Appearance	Colors Available			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.14	--	g/cm³	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/m²	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
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			

Recommended distributors for this material

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