

# VENYL UE037 - 8139

Polyamide 66

AD majoris

Message:

VENYL UE037 - 8139 is an unreinforced polyamide 66 with improved impact resistance intended for Injection moulding.

APPLICATIONS

VENYL UE037 - 8139 has been developed especially for very demanding applications in automotive industry and electrical parts requiring excellent combination between rigidity and high impact resistance at room temperature. It allows to avoid the conditioning of the part before use (low moisture absorption).

VENYL UE037 - 8139 is available in both natural and other colours can be provided on request.

General Information				
Features		Low Moisture Absorption		
		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
Appearance		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	1.6 to 2.3	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.2 to 2.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2400	1350	MPa	ISO 527-2
Tensile Stress (Break)	50.0 to 55.0	40.0 to 45.0	MPa	ISO 527-2
Tensile Strain (Yield)	13 to 45	170 to 220	%	ISO 527-2
Flexural Modulus	1700 to 1900	900 to 1000	MPa	ISO 178
Flexural Stress	60.0 to 70.0	30.0 to 40.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	80 to 85	100 to 110	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	75 to 80	90 to 100	J/m	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	213	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	256	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	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)	HB	--		UL 94
Oxygen Index	22	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Rear Temperature	270 to 285		°C	
Middle Temperature	265 to 280		°C	
Front Temperature	260 to 275		°C	
Nozzle Temperature	260 to 275		°C	
Mold Temperature	75.0 to 85.0		°C	
Injection Pressure	60.0 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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