

VENYL UN020

Polyamide 66

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Message:

VENYL UN020 is an unreinforced polyamide 66 with improved impact resistance intended for Injection moulding.

APPLICATIONS

VENYL UN020 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between rigidity and impact resistance at room temperature. It allows to avoid the conditioning of the part before use (low moisture absorption).

VENYL UN020 is available in both natural and black (VENYL UN020 BLACK 8229) but other colours can be provided on request.

General Information				
Features		Low hygroscopicity		
		Impact resistance, good		
		Medium hardness		
Uses		Electrical/Electronic Applications		
		Application in Automobile Field		
Appearance		Black		
		Available colors		
		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.11	--	g/cm ³	ISO 1183
Molding Shrinkage	1.4 - 2.3	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	2.4	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (L-Scale)	100	85		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3250	1500	MPa	ISO 527-2
Tensile Stress (Break)	70.0	53.5	MPa	ISO 527-2
Tensile Strain (Break)	15	40	%	ISO 527-2
Flexural Modulus	2000	1030	MPa	ISO 178
Flexural Stress	110	50.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	14	60	kJ/m ²	ISO 179

Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	--	No Break		ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	205	--	°C	ISO 75-2/B
1.8 MPa, not annealed	100	--	°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	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
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

Additional Information

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Water Absorption 23°C/50%RH, ISO 62: 2.2 to 2.5%Tensile Stress at Break, ISO 527-1,-2: 65 to 75 MPaTensile Modulus, ISO 527-1,-2: 3000 to 3500 MPaFlexural Strength, ISO 178: 100 to 120 MPaFlexural Modulus, ISO 178 1900 to 2100 MPaCharpy Notched Impact Strength, ISO 179: 11 to 17 kJ/m²Izod Notched Impact Strength, ISO 180: 160 to 198 J/m

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Tensile Stress at Break, ISO 527-1,-2: 50 to 55 MPaTensile Modulus, ISO 527-1,-2: 1400 to 1600 MPaFlexural Strength, ISO 178: 55 to 65 MPaFlexural Modulus, ISO 178 950 to 1100 MPaCharpy Notched Impact Strength, ISO 179: 50 to 70 kJ/m²

Injection	Dry	Unit
Rear Temperature	260 - 270	°C
Middle Temperature	270 - 280	°C
Front Temperature	275 - 290	°C
Processing (Melt) Temp	265 - 280	°C
Mold Temperature	60.0 - 90.0	°C
Injection Pressure	60.0 - 100	MPa
Injection Rate	Fast	
Holding Pressure	35.0 - 60.0	MPa
Screw L/D Ratio	15.0:1.0 to 20.0:1.0	

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