VENYL UN002 - 5321

Polyamide 66

AD majoris

Message:

VENYL UN002 - 5321 is a polyamide 66 lubrificated and coloured with medium viscosity intended for Injection moulding.
APPLICATIONS
VENYL UN002 - 5321 has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between thermal and mechanical properties.
VENYL UN002 - 5321 is available in both black (VENYL UN002 - 8229) and natural (VENYL UN002) but other colours can be provided on request.

General Information				
Additive	Lubricant			
Features	Lubricated Medium Viscosity Recyclable Material			
Uses	Automotive Applications Electrical Parts			
Appearance	Black Colors Available Natural Color			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.14	--	g/cm³	ISO 1183
Molding Shrinkage	1.3 to 2.2	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.2 to 2.5	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness (L-Scale)	103	87		ASTM D785
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	3000 to 3500	1400 to 1600	MPa	ISO 527-2
Tensile Stress (Break)	85.0 to 95.0	60.0 to 70.0	MPa	ISO 527-2
Tensile Strain (Break)	15 to 50	200 to 300	%	ISO 527-2
Flexural Modulus	2600 to 2900	1300 to 1500	MPa	ISO 178
Flexural Stress	135 to 150	75.0 to 85.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	3.7 to 5.5	17 to 23	kJ/m²	ISO 179

Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	51 to 660	180 to 200	J/m	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	105	--	°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)	V-2	--		UL 94
Glow Wire Flammability Index (2.00 mm)	850	--	°C	IEC 60695-2-12
Injection	**Dry**	**Unit**		
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	80.0 to 90.0		°C	
Injection Pressure	60.0 to 100		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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