

VENYL UG117 1741

Polyamide 66

AD majoris

Message:

VENYL UG117 1741 is a Polyamide 66 (Nylon 66) product filled with 13% glass fiber. It can be processed by injection molding and is available in Europe. Characteristics include:
Flame Rated
Eco-Friendly/Green

General Information			
Filler / Reinforcement	Glass Fiber,13% Filler by Weight		
Features	Recyclable Material		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Molding Shrinkage	1.0 to 1.2	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.9	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4200	MPa	ISO 527-2
Tensile Stress (Break)	73.0	MPa	ISO 527-2
Flexural Modulus	3500	MPa	ISO 178
Flexural Stress	103	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	37	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	248	°C	ISO 75-2/B
1.8 MPa, Unannealed	168	°C	ISO 75-2/A
Melting Temperature (DSC)	256	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	DIN 53482
Volume Resistivity	1.0E+14	ohms · cm	DIN 53482
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (1.00 mm)	650	°C	IEC 60695-2-12
Oxygen Index	24	%	ISO 4589-2
Injection	Nominal Value	Unit	

Rear Temperature	285 to 300	°C
Middle Temperature	280 to 295	°C
Front Temperature	275 to 290	°C
Nozzle Temperature	265 to 280	°C
Mold Temperature	90.0 to 120	°C
Injection Pressure	85.0 to 110	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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