

VITAMIDE® BG35NT6747

Polyamide 6
Jackdaw Polymers

Message:

VITAMIDE® BG35NT6747 is a Polyamide 6 (Nylon 6) product filled with 25% glass fiber. It is available in Europe. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	12.0	cm³/10min	ISO 1133
Water Absorption (23°C, 24 hr)	1.7	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	87.5	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.3	%	ASTM D638, ISO 527-2
Flexural Modulus	6000	MPa	ASTM D790, ISO 178
Flexural Stress			
--	100	MPa	ISO 178
Break	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m²	ISO 179
Charpy Notched Impact Strength ¹	7.00	kJ/m²	ASTM D256
Charpy Unnotched Impact Strength ²	30.0	kJ/m²	ASTM D256
Charpy Unnotched Impact Strength	30	kJ/m²	ISO 179
Notched Izod Impact Strength	6.0	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	210	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ASTM D648, ISO 75-2/A
Melting Temperature	220	°C	ASTM D2117, ISO 1218
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257, IEC 60093
Dielectric Strength	21	kV/mm	ASTM D149, IEC 60243-1
Comparative Tracking Index			
Solution A	450	V	IEC 60112
-- ³	450	V	ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94

Glow Wire Flammability Index (1.50 mm)	960	°C	IEC 60695-2-12
Oxygen Index	33	%	ASTM D2863, ISO 4589-2
NOTE			
1.	Method B		
2.	Method A		
3.	Solution A		

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