

VITAMIDE® AR86BK8511

Polyamide 66
Jackdaw Polymers

Message:

VITAMIDE® AR86BK8511 is a Polyamide 66 (Nylon 66) product filled with 30% glass fiber. It is available in Europe. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage	0.50 to 0.80	%	Internal Method
Water Absorption (23°C, 24 hr)	0.80	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	175	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2
Flexural Modulus	8200	MPa	ASTM D790, ISO 178
Flexural Stress			
--	260	MPa	ISO 178
Break	260	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	60	kJ/m ²	ISO 179
Notched Izod Impact Strength	11	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	240	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	235	°C	ASTM D648, ISO 75-2/A
Peak Melting Temperature	256	°C	ASTM D2117, ISO 1218
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257, IEC 60093
Dielectric Strength	34	kV/mm	ASTM D149, IEC 60243-1
Comparative Tracking Index (Solution A)	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Oxygen Index	23	%	ASTM D2863, ISO 4589-2

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