

Ravamid® BGF50 BK 45

Polyamide 6

Ravago Group

Message:

Black, 50% glass fibre reinforced, general purpose

All the products are also available Heat Stabilized (H) and UV Stabilized (UV)

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Recycled Content	Yes		
Features	General Purpose		
Uses	General Purpose		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	0.15 to 0.85	%	ASTM D955
Humidity	< 0.10	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11500	MPa	ASTM D882, ISO 527-2
Tensile Strength (Break)	195	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus	10200	MPa	ASTM D790, ISO 178
Flexural Strength	> 305	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179/1eU
Notched Izod Impact (Area) (23°C)	11.0	kJ/m ²	ASTM D256
Notched Izod Impact Strength (23°C)	11	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	215	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	225	°C	ISO 306/B50, ASTM D1525 1
Flammability	Nominal Value	Unit	Test Method
Burning Rate (3.20 mm)	< 100	mm/min	FMVSS 302
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
NOTE			

1. Rate A (50°C/h), Loading 2 (50 N)

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