

Rilsan® BZM-43 BLK

Polyamide 11

Arkema

Message:

Rilsan®BZM-43 BLK is a polyamide 11 (nylon 11) product, which contains a 43% glass fiber reinforced material. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: automotive industry. The main features are: environmental protection/green.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 43% filler by weight		
Features	Updatable resources		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.10	%	ASTM D570
Saturation	0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	111		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate, 23°C)	110	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	5.0	%	ASTM D638
Flexural Modulus (23°C)	7580	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	100	J/m	ASTM D256
23°C	190	J/m	ASTM D256
80°C	310	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	178	°C	ASTM D648
Melting Temperature	186	°C	
Additional Information			

Tensile Strength, Ultimate, ASTM D638, 176°F: 10,300 psiTensile Strength, Ultimate, ASTM D638, -40°F: 25,000 psiTensile Elongation, Ultimate, ASTM D638, 176°F: 10 %Tensile Elongation, Ultimate, ASTM D638, -40°F: 5 %Flexural Modulus, Tangent, ASTM D790, 176°F: 600,000 psiFlexural Modulus, Tangent, ASTM D790, -40°F: 1,200,000 psi

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