

Rilsan® BZM 23 G9

Polyamide 11

Arkema

Message:

Rilsan ® BZM 23 G9 is a fibreglass reinforced polyamide 11 produced from a renewable source. This black coloured grade with improved friction properties is designed for injection.

General Information			
Filler / Reinforcement	Glass Fiber,23% Filler by Weight		
Features	Renewable Resource Content		
Appearance	Black		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/5.0 kg)	9.00	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	78		
Shore D, 15 sec	74		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6100	MPa	ISO 527-2
Tensile Stress (Break)	108	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	5400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	10	kJ/m ²	
23°C	13	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	83	kJ/m ²	
23°C	74	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	186	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA11, MRS, 18-060, GF 23 + CD		ISO 1874

Renewable Carbon Content	> 86	%	ASTM D6866
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	250 to 290	°C	
Mold Temperature	40.0 to 90.0	°C	

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