

Rilsan® BUM 30 O

Polyamide 11

Arkema

Message:

Rilsan ® BUM 30 O is a glass bead reinforced polyamide 11 produced from a renewable source. The incorporation of glass beads yields a virtually isotropic reinforced product. This natural grade dedicated to injection is specially designed for drinking water application: WRAS (UK).

MAIN APPLICATIONS

Drinking water applications.

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
Features	Food Contact Acceptable		
	Renewable Resource Content		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/5.0 kg)	20.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	77		
Shore D, 15 sec	71		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1850	MPa	ISO 527-2
Tensile Stress (Break)	31.0	MPa	ISO 527-2
Tensile Strain (Break)	40	%	ISO 527-2
Flexural Modulus	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	5.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	96	kJ/m ²	
23°C	96	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	189	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method

ISO Shortname	PA11, MR, 18-020, GB 30	ISO 1874
Renewable Carbon Content	> 97	% 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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