

Rilsan® BMF

Polyamide 11

Arkema

Message:

Rilsan® BMF is a Polyamide 11 (Nylon 11) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: eco-friendly/green.

General Information				
Features		Renewable Resource Content		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1030	1030	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	56.0	--	cm ³ /10min	ISO 1133 ²
Water Absorption (Saturation)	1.9	--	%	ISO 62 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	1530	1300	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	45.0	42.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	5.0	10	%	ISO 527-2 ⁶
Nominal strain at break	> 50	> 50	%	ISO 527-2 ⁷
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁸
-30°C	11.0	10.0	kJ/m ²	
23°C	8.00	10.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁹
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ¹⁰
0.45 MPa	145	--	°C	
1.8 MPa	50.0	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	160	--	°C	ISO 306 ¹¹

Melting Temperature ¹²	189	--	°C	ISO 11357-3 ¹³
CLTE - Flow	8.5E-5	--	cm/cm/°C	ISO 11359-2 ¹⁴
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	1.0E+14	ohms	IEC 60093 ¹⁵
Volume resistivity	--	1.0E+12	ohms·m	IEC 60093 ¹⁶
Electric strength	--	30	kV/mm	IEC 60243-1 ¹⁷
Comparative tracking index	--	600		IEC 60112 ¹⁸
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ¹⁹
Burning Behav. at thickness h (3.20 mm)	V-2	--		ISO 1210 ²⁰
NOTE				
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
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8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
9.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
10.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
11.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
12.	10 °C/min			
13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			

14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
17.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
18.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
19.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
20.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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