

Rilsan® MB 3750

Polyamide 11

Arkema

Message:

Rilsan® MB 3750 is a Polyamide 11 (Nylon 11) product. It can be processed by extrusion, film extrusion, injection molding, profile extrusion, or sheet extrusion and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Eco-Friendly/Green

Good UV Resistance

Heat Resistant

General Information				
Features	Good UV Resistance			
	High Heat Resistance			
	Platable			
	Renewable Resource Content			
Appearance	Clear/Transparent			
Forms	Pellets			
Processing Method	Extrusion			
	Film Extrusion			
	Injection Molding			
	Profile Extrusion			
	Sheet Extrusion			
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	Dry	Conditioned	Unit	Test Method
Density	1040	1040	kg/m ³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	2.7	--	%	
Equilibrium	1.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	1660	1530	MPa	ISO 527-2 ³
Tensile Stress (Yield)	62.0	54.0	MPa	ISO 527-2 ⁴
Tensile Strain (Yield)	6.0	6.0	%	ISO 527-2 ⁵
Nominal strain at break	> 50	> 50	%	ISO 527-2 ⁶
Impact	Dry	Conditioned	Unit	Test Method

Charpy notched impact strength (-30°C)	11.0	13.0	kJ/m ²	ISO 179/1eA ⁷
Charpy impact strength				ISO 179/1eU ⁸
-30°C	No Break	No Break		
23°C	No Break	No Break		
Puncture energy (-30°C)	--	100	J	ISO 6603-2 ⁹
Puncture - maximum force (-30°C)	--	6500	N	ISO 6603-2 ¹⁰
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ¹¹
0.45 MPa	64.0	--	°C	
1.8 MPa	59.0	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	67.0	--	°C	ISO 306 ¹²
Melting Temperature ¹³	183	--	°C	ISO 11357-3 ¹⁴

NOTE

1. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

2. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

3. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

4. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

5. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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7. Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
13.	10 °C/min
14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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