

Rilsan® MB 3504 HP

Polyamide 11

Arkema

Message:

Rilsan® MB 3504 HP is a Polyamide 11 (Nylon 11) product. It can be processed by extrusion, injection molding, or profile 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 Stabilizer
- Impact Resistant
- Lubricated

General Information				
Additive		Heat Stabilizer		
		Lubricant		
		Plasticizer		
Features		Good Impact Resistance		
		Good UV Resistance		
		Heat Stabilized		
		Lubricated		
		Renewable Resource Content		
Forms		Pellets		
Processing Method		Extrusion		
		Injection Molding		
		Profile Extrusion		
Multi-Point Data		Creep Modulus vs. Time (ISO 11403-1)		
		Isochronous Stress vs. Strain (ISO 11403-1)		
		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
		Specific Volume vs Temperature (ISO 11403-2)		
		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)	1.00	--	cm ³ /10min	ISO 1133 ²
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	610	520	MPa	ISO 527-2 ³

Tensile Stress (Yield)	32.0	30.0	MPa	ISO 527-2 ⁴
Tensile Strain (Yield)	32	33	%	ISO 527-2 ⁵
Nominal strain at break	> 50	> 50	%	ISO 527-2 ⁶
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	7.00	10.0	kJ/m ²	
23°C	55.0 kJ/m ²	No Break		
Charpy impact strength				ISO 179/1eU ⁸
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	40.0	--	°C	ISO 75-2 ⁹
Melting Temperature ¹⁰	185	--	°C	ISO 11357-3 ¹¹
CLTE - Flow	1.4E-4	--	cm/cm/°C	ISO 11359-2 ¹²
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ¹³
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 ¹⁴
Oxygen index	22	--	%	ISO 4589-2 ¹⁵
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.			
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
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.	10 °C/min
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.	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.

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

