

Rilsan® BESN P40 W5 TL

Polyamide 11

Arkema

Message:

Rilsan® BESN P40 W5 TL is a Polyamide 11 (Nylon 11) product filled with filler. 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:

- Flame Retardant
- Eco-Friendly/Green
- Good UV Resistance
- Heat Stabilizer
- Lubricated

General Information				
Filler / Reinforcement		Filler		
Additive		Flame Retardant		
		Heat Stabilizer		
		Lubricant		
		Plasticizer		
Features		Flame Retardant		
		Good UV Resistance		
		Heat Stabilized		
		Lubricated		
		Renewable Resource Content		
Forms		Pellets		
Processing Method		Extrusion		
		Injection Molding		
		Profile Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1080	1080	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	8.00	--	cm ³ /10min	ISO 1133 ²
Water Absorption (Saturation)	1.4	--	%	ISO 62 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	605	580	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	28.0	27.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	38	39	%	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	4.00	4.00	kJ/m²	
23°C	48.0 kJ/m²	No Break		
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	147	--	°C	
1.8 MPa	55.0	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	136	--	°C	
Melting Temperature ¹²	182	--	°C	
CLTE - Flow	1.1E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Electric strength	--	18	kV/mm	
Comparative tracking index	--	600		
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	V-2	--	ISO 1210 ¹⁷	
Burning Behav. at thickness h (3.20 mm)	V-2	--	ISO 1210 ¹⁸	
Oxygen index	27	--	%	
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.			
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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.

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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

