

Rilsan® BESHV

Polyamide 11

Arkema

Message:

Rilsan® BESHV is a Polyamide 11 (Nylon 11) product. It can be processed by extrusion, film 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

Lubricated

General Information				
Additive	Lubricant			
Features	Lubricated			
	Renewable Resource Content			
Forms	Pellets			
Processing Method	Extrusion			
	Film Extrusion			
	Injection Molding			
	Profile Extrusion			
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/10.0 kg)	1.00	--	cm ³ /10min	ISO 1133 ²
Water Absorption (Saturation)	1.9	--	%	ISO 62 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	1360	1200	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	40.0	37.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	5.0	22	%	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	15.0	kJ/m ²	
23°C	--	32.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁹

-30°C	No Break	No Break		
23°C	No Break	No Break		
Puncture energy (-30°C)	--	75.0	J	ISO 6603-2 ¹⁰
Puncture - maximum force (-30°C)	--	6800	N	ISO 6603-2 ¹¹
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ¹²
0.45 MPa	145	--	°C	
1.8 MPa	50.0	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	160	--	°C	ISO 306 ¹³
Melting Temperature ¹⁴	189	--	°C	ISO 11357-3 ¹⁵
CLTE - Flow	8.5E-5	--	cm/cm/°C	ISO 11359-2 ¹⁶
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	1.0E+14	ohms	IEC 60093 ¹⁷
Volume resistivity	--	1.0E+12	ohms·m	IEC 60093 ¹⁸
Electric strength	--	30	kV/mm	IEC 60243-1 ¹⁹
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	V-2	--		ISO 1210 ²⁰
Burning Behav. at thickness h (3.20 mm)	V-2	--		ISO 1210 ²¹
Oxygen index	25	--	%	ISO 4589-2 ²²
NOTE				

1.

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

2.

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3.

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4.

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

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