

Rilsan® BECN TL

Polyamide 11

Arkema

Message:

Rilsan® BECN TL is a Polyamide 11 (Nylon 11) product. It can be processed by extrusion or injection molding 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

Lubricated

General Information				
Additive		Heat Stabilizer		
		Lubricant		
Features		Good UV Resistance		
		Heat Stabilized		
		Lubricated		
		Renewable Resource Content		
Forms		Pellets		
Processing Method		Extrusion		
		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)	30.0	--	cm ³ /10min	ISO 1133 ²
Water Absorption (Saturation)	1.9	--	%	ISO 62 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	1470	1250	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	43.0	41.0	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	kJ/m ²	
23°C	--	14.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁹
-30°C	--	No Break		
23°C	--	No Break		
Puncture energy (-30°C)	--	65.0	J	ISO 6603-2 ¹⁰
Puncture - maximum force (-30°C)	--	5500	N	ISO 6603-2 ¹¹
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ¹²
0.45 MPa	150	--	°C	
1.8 MPa	55.0	--	°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	9.0E-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
Relative Permittivity				IEC 60250 ²⁰
100 Hz	3.00	--		
1 MHz	3.00	--		
Dissipation Factor				IEC 60250 ²¹
100 Hz	0.027	--		
1 MHz	0.017	--		
Comparative tracking index	--	600		IEC 60112 ²²
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	V-2	--		ISO 1210 ²³
Burning Behav. at thickness h (3.20 mm)	V-2	--		ISO 1210 ²⁴
Oxygen index	25	--	%	ISO 4589-2 ²⁵
NOTE				

1.

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

2.

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

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