

Nylon 11

Rilsan® BESNO TL

Nylon 11 offers exceptional low water absorption for a PA (c. 2.5% at saturation), which leads to excellent dimensional stability. A true all-weather performer, it excels in extreme climates. Nylon 11 performs significantly better in wet environments than nylons 6 and 6/6 while delivering higher strength and better heat resistance than nylon 12. It also has high impact resistance at sub-zero temperatures and high pressure resistance. Nylon 11 is extremely robust, with excellent chemical resistance and high abrasion resistance. It also possesses a low coefficient of friction. UV resistance compared to other PAs is reasonable.

Summary of Properties

Property	ASTM Test Method	Units	Rilsan® BESNO TL
Tensile Strength at Break	D 638	Mpa	69
Tensile Strength at Yield	D 638	Mpa	42
Elongation at Break	D 638	%	380
Elongation at Yield	D 638	%	19
Flexural Modulus	D 638	Mpa	1100
Izod Impact Strength	D 256	J/M	Notched 96
Melt Point DSC	D 3418	°C	189
Specific Gravity	D 792	g/cc	1.03
Moisture Absorption - Saturation at 50% RH and 23° C	D 570	%	0.9
Dielectric Strength	D 149	kV•mm ⁻¹	30
Volume Resistivity	D 257	Ω • cm	10 ¹⁴
Surface Resistivity	D 257	Ω • cm	10 ¹⁴
Wear Index	NFT 46-102	Relative to 6/6	2.8x

NOTE: All data courtesy of Atofina Chemicals, Inc. Properties are based on unpigmented, unfilled resin per relevant ASTM-D.

MARKET APPLICATIONS:

- Automotive
- Electrical cables
- Medical
- Petroleum industry/drilling
- Pneumatic and hydraulic systems



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