

# RILSAN® BMV BLK T

Rilsan® BMV BLK T is polyamide 11 produced from a renewable source. This natural grade is designed for injection molding.

## MAIN CHARACTERISTICS

Property	Typical Value	Unit	Test Method
<b>Nature &amp; Designation</b>	<b>PA11, MHLR, 12-010</b>		ISO 1874
<b>Renewable Carbon (calculation)</b>	<b>&gt;96</b>	%	ASTM D6866
<b>Density</b>	<b>1.04</b>	g/cm <sup>3</sup>	ISO 1183
<b>Melting Point</b>	<b>369</b> (187)	°F (°C)	ISO 11357
<b>Hardness (*)</b> Instantaneous After 15 s	<b>75</b> <b>72</b>	Shore D Shore D	ISO 868
<b>Tensile Test (*)</b> Stress at yield Strain at yield Stress at break Strain at break	<b>3,380</b> (44) <b>5</b> <b>7,110</b> (49) <b>&gt;200</b>	psi (MPa) % psi (MPa) %	ISO 527
<b>Tensile Modulus (*)</b>	<b>216,000</b> (1490)	psi (MPa)	ISO 527
<b>Flexural Modulus (*)</b>	<b>186,000</b> (1280)	psi (MPa)	ISO 178
<b>Charpy Impact (*)</b> Unnotched 73°F (23°C) Unnotched -22°F (-30°C) V-notched 73°F (23°C) V-notched -22°F (-30°C)	<b>No break</b> <b>No break</b> <b>3.3</b> (7) <b>4.8</b> (10)	ft lb/in <sup>2</sup> (kJ/m <sup>2</sup> ) ft lb/in <sup>2</sup> (kJ/m <sup>2</sup> ) ft lb/in <sup>2</sup> (kJ/m <sup>2</sup> ) ft lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	ISO 179

(\*) Samples conditioned 15 days at 23°C - 50 % R.H.

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## MAIN APPLICATIONS

- Injection of fittings for gas pipe line.

## PROCESSING CONDITIONS

Conditions	Typical values
<b>Injection</b> Melt Temperature (Min / Recommended / Max)	<b>445°F / 480°F / 535°F</b> <b>230°C / 250°C / 280°C</b>
<b>Mold</b> Temperature	<b>68 - 140°F (20 – 60°C)</b>
<b>Drying (only necessary for bags/containers opened for more than two hours)</b> Time Temperature	<b>4 - 8 hours</b> <b>176°F (80°C)</b>

## PACKAGING

This grade is delivered dried in sealed packaging (44 lb bags / 1000 lb rigid container) ready to be processed.

## SHELF LIFE

Two years from the date of delivery. For any use above this limit, please refer to our technical services.

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See Safety Data Sheet for Health & Safety Considerations.