

RILSAN® BESHV BLK T

Rilsan® BESHV BLK T is an ultra high viscosity Polyamide 11 grade specifically designed to be extruded into large diameter thick wall pipe. This grade has been specifically engineered to achieve an outstanding balance of properties for Oil & Gas piping applications. It offers a cost effective system for non-metallic corrosion free fluid transfer in critical Oil and Gas industry applications. Rilsan® Polyamide 11 is the only thermoplastic material permitted by the US Department of Transportation (DOT) under the Code of Federal Regulations (CFR) Title 49, Part 192, for gas distribution piping to be installed and operated at pressures up to and including 200 psi in a design factor of 0.40

MAIN CHARACTERISTICS

| Property | Typical Value | Unit | Test Method |
|---------------------------------------|-----------------------|--|-------------|
| Nature & Designation | PA0320 B32300 | | ASTM D4066 |
| Renewable Carbon (calculation) | >95 | % | ASTM D6866 |
| Density | 1.03 | g/cm ³ | ISO 1183 |
| Melting Point | 372(189) | °F (°C) | ISO 11357 |
| Hardness (*) | | | |
| Instantaneous | 77 | Shore D | ISO 868 |
| After 15 s | 72 | Shore D | |
| Tensile Test (*) | | | |
| Stress at yield | 6,090 (42) | psi (MPa) | ISO 527 |
| Strain at yield | 5 | % | |
| Stress at break | 7,540 (52) | psi (MPa) | |
| Strain at break | >200 | % | |
| Tensile Modulus (*) | 202,000 (1390) | psi (MPa) | ISO 527 |
| Flexural Modulus (*) | 171,000 (1180) | psi (MPa) | ISO 178 |
| Charpy Impact (*) | | | |
| Unnotched 73°F (23°C) | No break | ft lb/in ² (kJ/m ²) | ISO 179 |
| Unnotched -22°F (-30°C) | No break | ft lb/in ² (kJ/m ²) | |
| V-notched 73°F (23°C) | 4.8 (10) | ft lb/in ² (kJ/m ²) | |
| V-notched -22°F (-30°C) | 5.2 (11) | ft lb/in ² (kJ/m ²) | |

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

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MAIN APPLICATIONS

- Oil & Gas piping applications.

PROCESSING CONDITIONS

| Conditions | Typical values |
|--|--|
| Injection Melt Temperature (Min / Recommended / Max) | 446°F / 482°F / 536°F 240°C / 270°C / 290°C |
| Mold Temperature | 20 – 60°C |
| Drying (only necessary for containers opened for more than two hours) Time/Temperature/Desiccant bed dryer | 12 hours/ 176°F/ -40°F |

PACKAGING

This grade is delivered dried in sealed packaging ready to be processed. For best results in gas pipe extrusion, additional desiccant bed drying to maintain/achieve moisture values < 0.02% is recommended.

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.