

TECHNICAL DATA SHEET

RILSAN® BSR 10 BLACK R10 TLD

POLYAMIDE 11 PELLET

RILSAN® BSR 30 is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This black reinforced grade is designed for injection molding and is used to produce automotive fittings or quick connectors, the incorporation of carbon fiber leading to a very rigid and tough product with electrostatic discharge (ESD) performance.

Designation : ISO 16396 - PA11, CF30, M1G1HLR, C11-140

TYPE

PA11-CF10(R10)

MAIN APPLICATIONS

- ウィンタースポーツ
- フットウェア
- 設備

配送形態

- ペレット

変換プロセス

- 射出成形

添加剤

- 熱安定
- 光安定
- 離型剤

RHEOLOGICAL PROPERTIES

プロパティ	価値	UNIT	テスト基準
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	42	cm³/10min	ISO 1133
Shrinkage, Parallel (t+24h)	0.21	%	ISO 294-4
Shrinkage, Normal (t+24h)	0.63	%	ISO 294-4

MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	UNIT	テスト基準
Flexural modulus, 23°C (73°F)	- / 5900	MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	- / 7200	MPa	ISO 527-1/-2
Stress at break, 23°C (73°F), 50 mm/min	132 / 131	MPa	ISO 527-1/-2
Strain at break, 23°C (73°F), 50 mm/min	6 / 6	%	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 10	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 5	kJ/m2	ISO 179 1eA
Charpy unnotched impact strength, 23°C (73°F)	69 / 73	kJ/m2	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	53 / 56	kJ/m2	ISO 179 1eU
(H18/1000g/1000cycles)	26 / -	mg	ISO 23794
Hardness, Shore D, Instantaneous	80 / 79		ISO 868
Hardness, Shore D, 15 s	77 / 76		ISO 868

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*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

THERMAL PROPERTIES

プロパティ	価値	UNIT	テスト基準
Melting temperature, 10°C/min	184	°C	ISO 11357-1/-3
Heat deflection temperature, 0.45 MPa	186	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	175	°C	ISO 75-1/-2

OTHER PROPERTIES

プロパティ	価値	UNIT	テスト基準
Specific gravity, 23°C (73°F)	1.07	g/cm³	ISO 1183-1
Water absorption, 23°C(73°F), immersion, equilibrium	0.43	%	ISO 62
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.16	%	ISO 62
Bio-based carbon content, Measured	86	%	

包装

Available packaging:
• 25 kg / 55 lb 袋

保存期間

納品日から2年間。適切な条件 (容器の密閉、適切な温度・湿度、UVカット) で保管された場合有効です。この期限を超えて使用する場合は、弊社の技術サービスにご相談ください。

PROCESSING CONDITIONS:

- 典型的な溶融温度 (最小/推奨/最大) - 射出成形: 240°C / 260°C / 280°C (465°F / 500°F / 535°F)
- 典型的な金型温度 - 射出成形: 30-80°C (85-175°F)
- 乾燥時間と温度: 80-90°C (175-195°F) / 4-6時間

特別な特性

- バイオベース

REGIONAL AVAILABILITY

Asia Pacific, Europe, Northern America

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