

TECHNICAL DATA SHEET

RILSAN® BSR 20 BLACK R20 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-CF20(R20)

MAIN APPLICATIONS

- 동계 스포츠
- 신발류
- 장비

배송 방식

- 펠릿

가공 공정

- 사출성형

첨가제

- 열 안정화
- 빛 안정제
- 방출제

RHEOLOGICAL PROPERTIES

속성	값	UNIT	테스트 표준
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	27	cm³/10min	ISO 1133
Shrinkage, Parallel (t+24h)	0.07	%	ISO 294-4
Shrinkage, Normal (t+24h)	0.47	%	ISO 294-4

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	UNIT	테스트 표준
Flexural modulus, 23°C (73°F)	- / 9850	MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	- / 12700	MPa	ISO 527-1/-2
Stress at break, 23°C (73°F), 50 mm/min	174 / 169	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)	- / 17	kJ/m²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 10	kJ/m²	ISO 179 1eA
Charpy unnotched impact strength, 23°C (73°F)	103 / 125	kJ/m²	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	96 / 106	kJ/m²	ISO 179 1eU
(H18/1000g/1000cycles)	18 / -	mg	ISO 23794
Hardness, Shore D, Instantaneous	/ 82		ISO 868
Hardness, Shore D, 15 s	/ 80		ISO 868

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

속성	값	UNIT	테스트 표준
Melting temperature, 10°C/min	184	°C	ISO 11357-1/-3
Heat deflection temperature, 0.45 MPa	187	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	178	°C	ISO 75-1/-2

OTHER PROPERTIES

속성	값	UNIT	테스트 표준
Specific gravity, 23°C (73°F)	1.12	g/cm³	ISO 1183-1
Water absorption, 23°C (73°F), immersion, equilibrium	0.39	%	ISO 62
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.15	%	ISO 62
Bio-based carbon content, Measured	74	%	

포장

Available packaging:
• 25 kg / 55 lb 가방

보관수명

납품일로부터 2년 후, 적절히 보관될 때 (밀봉 봉지, 적절한 습도, 자외선 차단 및 온도). 이 한도를 초과하는 모든 사용에 대해서는 기술 서비스팀에 문의하십시오.

PROCESSING CONDITIONS:

- 일반적인 용융 온도(최소/권장/최대) - 사출 성형: 240°C / 260°C / 280°C (465°F / 500°F / 535°F)
- 일반적인 금형 온도 - 사출 성형: 30-80°C (85-175°F)
- 건조 시간 및 온도: 80-90°C (175-195°F) / 4-6 시간

특징

- 생물 기반

Headquarter: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux – France
T +33 (0)1 49 00 80 80

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