RILSAN®
BESN BLACK P20 TL

PA11-P,E HL, 22-005

Rilsan® BESN BLACK P20 TL resin is a polyamide 11 produced from a renewable source. This black grade is plasticized and designed for extrusion.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
MECHANICAL PROPERTIES			
Tensile Modulus	- / 560	MPa	ISO 527-1/-2
	- / 81200	psi	
Yield Stress	- / 32	MPa	ISO 527-1/-2
	- / 4640	psi	
Yield Strain	- / 33	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 70	kJ/m²	ISO 179/1eA
	- / 33.3	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 10	kJ/m²	ISO 179/1eA
	- / 4.76	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	182 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	47 / *	°C	ISO 75-1/-2
	117 / *	°F	
Temp. of Deflection Under Load, 0.45 MPa	135 / *	°C	ISO 75-1/-2
	275 / *	°F	
OTHER PROPERTIES			
Water Absorption, 23°C, immersion, equilibrium	1.8 / *	%	ISO 62
Density	1040 / 1040	kg/m³	ISO 1183
	1.04 / 1.04	g/cm³	

MAIN APPLICATIONS:

- Fluid transportation
- Tubing for use in motor vehicle

PACKAGING:

This grade is delivered dried in sealed packaging (25 kg bags / 550 kg rigid containers) ready to be processed.

SHELF LIFE:

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

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Source: automatically generated TDS from Material Database on 20-02-2024

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Processing conditions:
- Typical melt temperature (Min / Recommended / Max) : 230°C / 250°C / 280°C.

- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80-90°C.

PROCESSING

Profile Extrusion, Other Extrusion

DELIVERY FORM

Pellets

ADDITIVES

Lubricants, Plasticizer

SPECIAL CHARACTERISTICS

Bio-Based, Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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