

Rilsan® BESN Noir P40 TL

Polyamide 11

Arkema

Message:

Rilsan ® BESN Noir P40 TL is a polyamide 11 produced from a renewable source. This black grade is plasticized and designed for extrusion.

MAIN APPLICATIONS

- Air brake.
- Fluid transportation.
- Tubing for use in motor vehicle.

General Information			
Additive	Plasticizer		
Features	Renewable Resource Content		
Uses	Automotive Applications		
	Tubing		
Appearance	Black		
Processing Method	Extrusion		
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)		
	Isochronous Stress vs. Strain (ISO 11403-1)		
	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	68		
Shore D, 15 sec	60		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	350	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	27.0	MPa	
Break	55.0	MPa	
Tensile Strain			ISO 527-2
Yield	41	%	
Break	> 200	%	
Flexural Modulus	350	MPa	ISO 178

Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	7.00	mg	ISO 9352
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m ²	
23°C	No Break		
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	181	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA11-P, EHL, 22-003		ISO 1874
Renewable Carbon Content	> 88	%	ASTM D6866
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0 to 8.0	hr	
Melt Temperature	230 to 280	°C	

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