

Rilsan® BESNO P40 W6 TL

Polyamide 11

Arkema

Message:

Rilsan ® BESNO P40 W6 TL is a polyamide 11 produced from a renewable source. This natural grade is plasticized and designed for extrusion. This grade is classified as Halogen free Flame Retardant (HFFR).

MAIN APPLICATIONS

Fluid transportation.

General Information			
Additive	Plasticizer		
Features	Flame Retardant		
	Halogen Free		
	Renewable Resource Content		
Appearance	Natural Color		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.11	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	540	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	24.0	MPa	
Break	32.0	MPa	
Tensile Strain			ISO 527-2
Yield	41	%	
Break	> 200	%	
Flexural Modulus	470	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m²	
23°C	25	kJ/m²	
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

Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	V-2		UL 94
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA11-P, EFHL, 22-005		ISO 1874
Renewable Carbon Content	> 79	%	ASTM D6866
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0 to 8.0	hr	
Melt Temperature	210 to 230	°C	

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