

Rilsan® BESNO P40 TLX

Polyamide 11

Arkema

Message:

Rilsan ® BESNO P40 TLX is a polyamide 11 produced from a renewable source. This natural grade is plasticized and designed for extrusion of large pipe as used in Oil and Gas applications.

MAIN APPLICATIONS

Fluid transportation for Oil and Gas sector.

Pressure and external sheath for offshore flexible pipes as per API 17 J.

Liner for steel tubes or composite pipes.

General Information			
Additive	Plasticizer		
Features	Good Flexibility		
	Renewable Resource Content		
Uses	Tubing		
Appearance	Natural Color		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	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	345	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	26.0	MPa	
Break	48.0	MPa	
Tensile Strain			ISO 527-2
Yield	52	%	
Break	> 200	%	
Flexural Modulus	310	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	9.50	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	> 89	%	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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