

Rilsan® BMNO P40 TLD

Polyamide 11

Arkema

Message:

Rilsan ® BMNO P40 TLD is a polyamide 11 produced from a renewable source. This natural grade is plasticized and designed for injection molding.
MAIN APPLICATIONS
Tennis racquet bumpers.

General Information			
Additive	Plasticizer		
Features	Renewable Resource Content		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 30°C, 24 hr, 2.00 mm	1.0	%	
Flow : 30°C, 24 hr, 2.00 mm	1.2	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	66		
Shore D, 15 sec	58		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	345	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	25.0	MPa	
Break	55.0	MPa	
Tensile Strain			ISO 527-2
Yield	42	%	
Break	> 200	%	
Flexural Modulus	315	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	6.0	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, MHLR, 12-003	ISO 1874
Renewable Carbon Content	> 88	% ASTM D6866
Injection	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	4.0 to 6.0	hr
Processing (Melt) Temp	210 to 280	°C
Mold Temperature	20.0 to 60.0	°C

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