

Rilsan® BMV Blanc 5 P20 D

Polyamide 11

Arkema

Message:

Rilsan ® BMV Blanc 5 P20 D is a polyamide 11 produced from a renewable source. This white coloured grade is plasticized and designed for injection molding.

MAIN APPLICATIONS

Badminton shuttlecock.

General Information			
Additive	Plasticizer		
Features	Renewable Resource Content		
Appearance	White		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 30°C, 24 hr, 2.00 mm	1.1	%	
Flow : 30°C, 24 hr, 2.00 mm	0.90	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	515	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	32.0	MPa	
Break	59.0	MPa	
Tensile Strain			ISO 527-2
Yield	30	%	
Break	> 200	%	
Flexural Modulus	435	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	6.0	kJ/m ²	
23°C	95	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	189	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA11-P, MR, 18-010		ISO 1874

Renewable Carbon Content	> 89	%	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	230 to 270	°C	
Mold Temperature	20.0 to 60.0	°C	

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