

RILSAN®

BMV WHITE 5 P20 D

PA11-P, MR, 18-010

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

The percentage of renewable carbon according to ASTM D 6866 (calculated) is >89%.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Molding Shrinkage, parallel	0.9 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 515	MPa	ISO 527-1/-2
	- /	psi	
Yield stress	74 / 700	MPa	ISO 527-1/-2
	- / 32	psi	
	- / 4640	psi	
Yield strain	- / 30	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness	61 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 95	kJ/m²	ISO 179/1eA
	- / 45.2	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 6	kJ/m²	ISO 179/1eA
	- / 2.85	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	186 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	1040 / 1040	kg/m³	ISO 1183
	1.04 / 1.04	g/cm³	
%Bio-Based	89	-	ASTM D6866

MAIN APPLICATIONS:

- adminton shuttlecock

PACKAGING:

This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

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SHELF LIFE:

Two years from the delivery. For any use above this limit, please refer to our technical services.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 230°C / 250°C / 270°C.

- Mold temperature : 20 - 60°C

- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80-90°C.

PROCESSING	
Injection Molding	
DELIVERY FORM	
Pellets	
ADDITIVES	
Release agent, Plasticizer	
SPECIAL CHARACTERISTICS	
Bio-Based, Heat Stabilized, Light Stabilized	
REGIONAL AVAILABILITY	
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	