

## TECHNICAL DATA SHEET

# RILSAN® BMV WHITE5 P20 D

## POLYAMIDE 11 PELLET

RILSAN® BMV WHITE5-P20-D is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This grade is designed for injection molding

### DESIGNATION

PA11

### MAIN APPLICATIONS

- Outdoor - Balls/Shuttlecock

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Injection Molding

## RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Shrinkage, Parallel (t+24h)	1.5 %	ISO 294-4
Shrinkage, Normal (t+24h)	1.5 %	ISO 294-4

## MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Hardness, Shore D, 15 s	- / 61	ISO 868
Charpy unnotched impact strength, 23°C (73°F)	- / No Break	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / No Break	ISO 179 1eU
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 50 %	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 30 %	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 32 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 515 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 95 kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 6 kJ/m2	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 435 MPa	ISO 178

\*DRY: Dry As Molded (DAM) if pellet / Dry if powder.  
COND: Conditioned.

## THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	186 °C	ISO 11357-1/-3

## OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Specific gravity, 23°C (73°F)	1.04 g/cm <sup>3</sup>	ISO 1183-1

# RILSAN® BMV WHITE5 P20 D

## PACKAGING

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 25 kg / 55 lb bags

## SHELF LIFE

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

## PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- Typical mold temperature - Injection molding: 40-90°C (105-195°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

## SPECIAL CHARACTERISTICS

- Bio-based
- Low oligomers

**Headquarter: Arkema France**  
420, rue d'Estienne d'Orves  
92705 Colombes Cedex – France  
T +33 (0)1 49 00 80 80

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.  
Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790

**ARKEMA**