

PRODUCT DATA SHEET

PR311

POLYPROPYLENE RANDOM COPOLYMER

Product Description

PR311 is a random copolymer with medium melt flow suitable to be used in injection moulding application. It contains nucleating agent that provides good transparency as well as to improve productivity. It has a good organoleptic property to meet the essential requirements of the food industry.

Characteristics

- Medium stiffness
- High transparency
- Contains nucleating agent

Applications

- Caps & closures
- Clear containers
- Housewares
- Sports
- Leisure & toys

Properties

Typical Properties	Test Method	Units	Typical Value
Physical			
Melt Flow Rate at 230 °C/2.16 kg	ISO 1133	g/10min	11
Density	ISO 1183	g/cm ³	0.90
Mechanical			
Flexural Modulus	ISO 178	MPa	1000
Tensile Modulus	ISO 527-2	MPa	1150
Tensile Stress at Yield	ISO 527-2	MPa	30
Tensile Strain at Break	ISO 527-2	%	>50
Tensile strain at Yield	ISO 527-2	%	14
Impact			
Izod Notched at 23 °C min	ISO 180/A	kJ/m ²	8.3
Thermal			
Vicat Softening Temperature (A50)	ISO 306	°C	129
Heat Deflection Temperature B (0.45MPa, Unannealed)	ISO 75B-2	°C	76
Optical			
Haze (1 mm- injection moulded disc)	ASTM D1003	%	9

Note: The above are typical data representing the product; not to be construed as analysis certificate or specifications. User should confirm results by their own tests.

Typical Processing Conditions

PR311 can be processed on most standard injection moulding conversion equipment designed for PP. Optimization may be required depending on the exact end use requirement. Recommended melt temperature in the range of 190–240°C can be used.

Regulatory Information

Details of information will be provided in a relevant declaration letter upon request.

Processing and Handling

PR311 should be stored in a dry, under shaded and ventilated environment at a temperature below 50°C. Prolonged or improper storage can result in deterioration of product properties.

Health and Safety

This product is not classified as a dangerous preparation. Before using this product, customer is advised to consult PRefChem's Safety Data Sheet (SDS) to understand the precautions in various aspect of safety, recovery and disposal of the product.

For More Information

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