Bormed™ RF825MO-12

Technical DataSheet | Supplied by Borealis

Bormed™ RF825MO-12 by Borealis is a recyclable polypropylene random copolymer with high melt flow. It is modified with a nucleating agent. It provides fast crystallization, fast cycle time, high transparency, high gloss and good stiffness-impact balance. It can be sterilized with ethylene oxide and steam. It offers easy processability and good printability. It is designed for processing by injection molding. Bormed™ RF825MO-12 is recommended for healthcare applications such as medical devices, pharmaceutical, diagnostic packaging, needle hubs, blood collection systems, catheter connections and disposable non-prefilled syringes. It complies with REACH Regulation 1272/2008/EC and RoHS 2011/65/EU.

Product Type	PP (Polypropylene) > PP, Random Copolymer
CAS Number	9010-79-1
Physical Form	Solid
Appearance	Natural
Product Status	COMMERCIAL
Geographical Availability	Africa, Asia / Pacific, Central and Eastern Europe, Middle East and Central Asia, Western Europe
Applications/ Recommended for	Healthcare / Medical > Catheters Healthcare / Medical > Medical goods Healthcare / Medical > Syringes Injection molding - thermoplastics
Labels/Agency Rating	REACH Regulation 1272/2008/EC RoHS 2011/65/EU
Key Features	Processability, Good Sterilization, Ethylene Oxide Gloss, High Stiffness, Good Crystallization, Fast Copolymer Recyclable Transparency, High Nucleated Printability, Excellent Sterilization, Autoclave Flow, High

Bormed™ RF825MO-12 Properties

Physical	Value & Unit	Test Condition	Test Method
Density	905 kg/m³		ISO 1183
Linear Mold Shrinkage	1 - 2 %		
Melt Mass-Flow Rate (MFR or MFI = Melt Flow Index or MI = Melt Index)	20 g/10min	At 230°C, 2.16 kg	ISO 1133

Mechanical	Value & Unit	Test Condition	Test Method
Flexural Modulus	1100 MPa		ISO 178
Tensile Modulus	1150 MPa	At 1 mm/min	ISO 527-2
Tensile Strength, Yield	28 MPa	At 50 mm/min	ISO 527-2
Impact Strength, Notched Charpy	6 kJ/m^2	At 23°C	ISO 179/1eA
Tensile Strain	12 %	At Yield, 50 mm/min	ISO 527-2

Thermal	Value & Unit	Test Condition	Test Method
Deflection Temperature at 0.46 MPa (66 psi)	80 °C		ISO 75-2
Melting Point	150 °C	DSC	ISO 11357-3

Bormed™ RF825MO-12 Processing Guidelines

Injection Molding	Value & Unit	Test Condition	Test Method

Melt Temperature	220 - 250 °C
Mold Temperature	30 - 40 °C

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