

## Borealis BC142MO Polypropylene Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

### Material Notes:

BC142MO is a controlled rheology polypropylene heterophasic copolymer. It is characterized by high impact strength, good stiffness, excellent process ability, good flow properties and low warpage. Applications: crates and boxes, and technical parts. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-BC142MO-Polypropylene-Copolymer.php](http://www.lookpolymers.com/polymer_Borealis-BC142MO-Polypropylene-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	82	82	ISO 2039-2
Tensile Strength, Yield	25.0 MPa	3630 psi	50mm/min; ISO 527-2
Elongation at Yield	9.5 %	9.5 %	50mm/min; ISO 527
Tensile Modulus	1.10 GPa	160 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.400 J/cm <sup>2</sup> @Temperature -20.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 179/1eA
	0.900 J/cm <sup>2</sup> @Temperature 23.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA
Puncture Energy	30.0 J @Temperature 0.000 °C	22.1 ft-lb @Temperature 32.0 °F	ISO 6603-2
	32.0 J @Temperature -20.0 °C	23.6 ft-lb @Temperature -4.00 °F	ISO 6603-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 260 °C	446 - 500 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	high	

## Contact Songhan Plastic Technology Co.,Ltd.

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