

## Borealis Daploy™ WB130HMS High Melt Strength Polypropylene for Foam Extrusion

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Extrusion Grade

### Material Notes:

Daploy WB130HMS resin is a propylene-based, structurally isomeric polymer, which combines significantly increased melt strength with largely drawability of the polymer melt. Thus, the material is generally characterized by improved processability in polymer forming technologies where stretching flows occur. Daploy WB130HMS has been developed for thermoformable, foamed films and sheets, lightweight packaging trays, beakers and containers, microwaveable food packaging, technical foams for automotive applications such as headliners, carpet backing, door liners, parcel shelves, water shields, under-the-hood acoustic panels, cushioning and protective packaging, and thermal and acoustic insulation. Information provided by the Manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Daploy-WB130HMS-High-Melt-Strength-Polypropylene-for-Foam-Extrusion.php](http://www.lookpolymers.com/polymer_Borealis-Daploy-WB130HMS-High-Melt-Strength-Polypropylene-for-Foam-Extrusion.php)

Physical Properties	Metric	English	Comments
Melt Flow	2.1 g/10 min	2.1 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.00 MPa	5801 psi	ISO 527-2
Elongation at Yield	6.0 %	6.0 %	ISO 527-2
Tensile Modulus	2.00 GPa	290 ksi	ISO 527-2
Flexural Modulus	1.90 GPa	276 ksi	ISO 178
Charpy Impact Unnotched	100 J/cm <sup>2</sup>	476 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	ISO 179/1eA
	0.100 J/cm <sup>2</sup> @Temperature -20.0 °C	0.476 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	60.0 °C	140 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	>= 280 °C	>= 536 °F	

Processing Properties	Metric	English	Comments
Die Temperature	>= 290 °C	>= 554 °F	

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