

Borealis Daplen™ MD206U Polypropylene Compound 20% Mineral Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced

Material Notes:

Daplen MD206U is a 20% mineral filled polypropylene compound intended for injection molding. MD206U has been developed especially for automotive interior parts that require excellent balance between the impact strength and stiffness and good surface quality. In addition it has a good UV and weathering stability. Daplen MD206U has been developed for door panels and pockets, consoles, handles, bumper reinforcement parts, and cowl vent grilles. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-MD206U-Polypropylene-Compound-20-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	Borealis Method
Melt Flow	7.0 g/10 min	7.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	24 g/10 min	24 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	59.0 MPa	8560 psi	H385/30; ISO 2039
Tensile Strength, Yield	24.99 MPa	3625 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	At 50 mm/min; ISO 527-2
Flexural Modulus	2.25 GPa	326 ksi	At 5 mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	3.30 J/cm ²	15.7 ft-lb/in ²	ISO 179/1eU
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	3.70 J/cm ²	17.6 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA
	0.250 J/cm ²	1.19 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	112 °C	234 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	60.4 °C	141 °F	ISO 75-2
Vicat Softening Point	80.0 °C	176 °F	B (50N); ISO 306
	150 °C	302 °F	A (10N); ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 260 °C	410 - 500 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	

Descriptive Properties	Value	Comments
Emissions, ug C/g	10	VDA 277
Fogging %	958.2	At 100°C/3 hours
Fogging, mg	0.5	At 100°C/ 16 hours

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