

Borealis ME266U Polypropylene Compound, Mineral Filled

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

Material Notes:

ME266U is a 20% mineral filled polypropylene compound intended for injection molding. This material has an excellent balance between impact strength and stiffness and gives a good surface quality. Applications: ME266U has been developed especially for the car industry to be used in automotive interior parts including pillar trims, door panels and pockets, and other automotive interior applications. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-ME266U-Polypropylene-Compound-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	Borealis Method; average process
Melt Flow	12 g/10 min	12 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	49 g/10 min	49 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	62.0 MPa	8990 psi	358 N/30s; ISO 2039
Tensile Strength, Yield	28.0 MPa	4060 psi	50mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527-2
Flexural Modulus	2.50 GPa	363 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	2.56 J/cm ²	12.2 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	5.20 J/cm ²	24.7 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.250 J/cm ²	1.19 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	115 °C	239 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	ISO 75-2
Vicat Softening Point	153 °C @Load 1.02 kg	307 °F @Load 2.25 lb	ISO 306

Processing Properties	Metric	English	Comments
Processing Temperature	220 - 260 °C	428 - 500 °F	mass temperature
Feed Temperature	40.0 - 80.0 °C	104 - 176 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Injection Velocity	100 - 200 mm/sec	3.94 - 7.87 in/sec	
Hold Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

Descriptive Properties	Value	Comments
Back Pressure	low to medium	
Emission (µgC/g)	18	VDA 277
Fogging (mg)	0.97	100°C, 3h; DIN 75201
	1	100°C, 16h; DIN 75201
Screw Speed	low to medium	

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