

Borealis Daplen™ FS65T20 Polypropylene Compound 20% Mineral Filled, Detergent Resistant

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Daplen FS65T20 is a 20% mineral filled polypropylene compound intended for injection molding. FS65T20 has been developed especially for applications requiring high detergent resistance and heat stability. FS65T20 has well balanced mechanical properties, medium flow rate and good processability and its tested and approved according to UL94 HB. Daplen FS65T20 has been developed for washing machine parts, dishwasher components, and household appliances. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-FS65T20-Polypropylene-Compound-20-Mineral-Filled-Detergent-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	150x80x20
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	150x80x20; Borealis Method
Melt Flow	6.0 g/10 min	6.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	26 g/10 min	26 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	82.0 MPa	11900 psi	H385/30; ISO 2039
Tensile Strength, Yield	32.00 MPa	4641 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	4.9 %	4.9 %	At 50 mm/min; ISO 527-2
Flexural Modulus	2.80 GPa	406 ksi	At 5 mm/min; ISO 178
Charpy Impact Unnotched	4.30 J/cm ²	20.5 ft-lb/in ²	ISO 179/1eU
	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	0.230 J/cm ²	1.09 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	121 °C	250 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	ISO 75-2
Vicat Softening Point	89.0 °C	192 °F	B (50N); ISO 306
	154 °C	309 °F	A (10N); ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 260 °C	410 - 500 °F	Polymer Mass Temp
Mold Temperature	30.0 - 60.0 °C	86.0 - 140 °F	

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