

Borealis Daplen™ KSX65T20 Polypropylene Compound 20% Mineral Filled

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

Material Notes:

Daplen KSX65T20 is a 20% mineral filled grade intended for injection molding. Daplen KSX65T20 has been developed especially for the car industry, to be used in interior parts. Daplen KSX65T20 offers excellent balance in stiffness/impact strength. It is available in multi spot effects. Daplen KSX65T20 has been developed for pillar trims, door panels/pockets, and other automotive interior parts. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-KSX65T20-Polypropylene-Compound-20-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	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	
	30 g/10 min	30 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	50.0 MPa	7250 psi	H385/30; ISO 2039
Tensile Strength, Yield	20.0 MPa	2900 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	5.3 %	5.3 %	At 50 mm/min; ISO 527-2
Flexural Modulus	1.60 GPa	232 ksi	At 2 mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	5.10 J/cm ²	24.3 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/1eA
	0.430 J/cm ²	2.05 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa	91.0 °C	196 °F	

<small>(56 psi)</small> Thermal Properties	Metric	English	ISO 75-2 Comments
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75-2
Vicat Softening Point	51.0 °C	124 °F	B (50N); ISO 306
	128 °C	262 °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	45	VDA 277
Fogging %	96.4	At 100°C/3 hours
Fogging, mg	0.5	At 100°C/ 16 hours

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