

Borealis Daplen™ KSR4525 Polypropylene Reactor Elastomer Modified

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Daplen KSR4525 is a reactor elastomer modified polypropylene intended for injection molding. Daplean KSR4525 is a material with excellent impact/stiffness ratio. The grade is available in natural color. Daplen KSR4525 has been developed for bumper fascias and exterior trims. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-KSR4525-Polypropylene-Reactor-Elastomer-Modified.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	Borealis Method
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	At 50 mm/min; ISO 527-2
Tensile Modulus	0.940 GPa	136 ksi	At 1 mm/min; ISO 527-2
Flexural Modulus	0.970 GPa	141 ksi	At 2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -20.0 °C	2.86 ft-lb/in ² @Temperature -4.00 °F	ISO 180/1A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	ISO 179/1eU
Charpy Impact, Notched	2.80 J/cm ²	13.3 ft-lb/in ²	ISO 179/1eA
	0.550 J/cm ² @Temperature -30.0 °C	2.62 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.700 J/cm ² @Temperature -20.0 °C	3.33 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	125 µm/m-°C	69.4 µin/in-°F	Borealis Method

Thermal Properties	Metric @Temperature 23.0 - 30.0 °C	English @Temperature 73.4 - 119 °F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ISO 75-2
Vicat Softening Point	52.0 °C	126 °F	B (50N); ISO 306
	137 °C	279 °F	A (10N); ISO 306
Shrinkage	0.150 % @Temperature 90.0 °C, Time 7200 sec	0.150 % @Temperature 194 °F, Time 2.00 hour	Post Shrinkage; Borealis Method

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	Polymer Mass Temp
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	

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