

Borealis Daplen™ KSR65T20 Polypropylene Compound 20% Mineral Filled

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

Material Notes:

Daplen KSR65T20 is a 20% mineral filled grade for injection molding. Daplen KSR65T20 has been developed especially for the car industry, to be used in interior parts. Daplen KSR65T20 offers very good balance in stiffness/impact strength. Daplen KSR65T20 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-KSR65T20-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 | 0.010 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 | 57.0 MPa | 8270 psi | H385/30; ISO 2039 |
| Tensile Strength, Yield | 20.99 MPa | 3045 psi | At 50 mm/min; ISO 527-2 |
| Elongation at Yield | 3.5 % | 3.5 % | At 50 mm/min; ISO 527-2 |
| Flexural Modulus | 2.10 GPa | 305 ksi | At 2 mm/min; ISO 178 |
| Charpy Impact Unnotched | NB | NB | ISO 179/1eU |
| | 5.30 J/cm ² | 25.2 ft-lb/in ² | ISO 179/1eU |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |
| Charpy Impact, Notched | 1.10 J/cm ² | 5.24 ft-lb/in ² | ISO 179/1eA |
| | 0.300 J/cm ² | 1.43 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) | 98.0 °C | 208 °F | ISO 75-2 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|------------------|
| Vicat Softening Point | 56.0 °C | 133 °F | B (50N); ISO 306 |
| | 132 °C | 270 °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 | 25 | VDA 277 |
| Fogging % | 97.4 | At 100°C/3 hours |
| Fogging, mg | 1 | At 100°C/ 16 hours |

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