

Polykemi AB POLYfill PPH TS2040 Polypropylene Homopolymer, Mineral Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Talc Filler

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPH-TS2040-Polypropylene-Homopolymer-Mineral-Reinforced.php

| Physical Properties | Metric | English | Comments |
|------------------------|--------------------------------------|--------------------------------------|-----------------------|
| Density | 1.23 g/cc | 0.0444 lb/in ³ | ISO 1183 |
| Filler Content | 40 % | 40 % | ±2%; Polykemi |
| Linear Mold Shrinkage | 0.0090 - 0.011 cm/cm | 0.0090 - 0.011 in/in | With Flow; ISO 2577 |
| | 0.0090 - 0.011 cm/cm | 0.0090 - 0.011 in/in | Across Flow; ISO 2577 |
| Melt Index of Compound | 2.0 g/10 min | 2.0 g/10 min | ISO 1133 |
| | @Load 2.16 kg, Temperature 230 °C | @Load 4.76 lb, Temperature 446 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------------------|-----------------------------|----------|
| Tensile Strength at Break | <= 28.0 MPa | <= 4060 psi | ISO/R527 |
| Elongation at Yield | 5.0 % | 5.0 % | ISO/R527 |
| Flexural Strength | <= 54.0 MPa | <= 7830 psi | ISO 178 |
| Flexural Modulus | 3.00 GPa | 435 ksi | ISO 178 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 0.200 J/cm ² | 0.952 ft-lb/in ² | ISO 179 |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |
| | 0.400 J/cm ² | 1.90 ft-lb/in ² | ISO 179 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 122 °C | 252 °F | 120°C/h; ISO 75/1 |
| Deflection Temperature at 1.8 MPa (264 psi) | 70.0 °C | 158 °F | 120°C/h; ISO 75/1 |
| Vicat Softening Point | 84.0 °C | 183 °F | 50°C/h; ISO 306 |

| Thermal Properties | @Load 5.001 kg Metric | @Load 11.03 lb English | Comments |
|--------------------|--------------------------|---------------------------|-----------------|
| | 146 °C | 295 °F | 50°C/h; ISO 306 |
| | @Load 1.00 kg | @Load 2.21 lb | |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| Glow Wire Test | 750 °C | 1380 °F | IEC 695-2-1 |
| | @Thickness 2.00 mm | @Thickness 0.0787 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------------|------------------|------------------------|
| Melt Temperature | 205 - 260 °C | 401 - 500 °F | |
| Mold Temperature | 40.0 - 80.0 °C | 104 - 176 °F | |
| Drying Temperature | 70.0 - 80.0 °C | 158 - 176 °F | |
| Dry Time | 2 - 4 hour | 2 - 4 hour | in circulation dryer |
| | 2 - 4 hour | 2 - 4 hour | in desiccant air dryer |
| Injection Pressure | 40.0 - 110 MPa | 5800 - 16000 psi | |
| Back Pressure | 1.00 - 2.00 MPa | 145 - 290 psi | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|-------------------------|
| Holding Pressure () | 20-40 | % of injection pressure |
| Injection Speed () | High | |

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