

Polykemi AB POLYform POM C M270 Polyoxymethylene

Category : Polymer , Thermoplastic

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYform-POM-C-M270-Polyoxymethylene.php

| Physical Properties | Metric | English | Comments |
|------------------------|--------------------------------------|--------------------------------------|-----------------------|
| Density | 1.41 g/cc | 0.0509 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage | 0.018 - 0.020 cm/cm | 0.018 - 0.020 in/in | Across Flow; ISO 2577 |
| | 0.018 - 0.020 cm/cm | 0.018 - 0.020 in/in | With Flow; ISO 2577 |
| Melt Index of Compound | 27 g/10 min | 27 g/10 min | ISO 1133 |
| | @Load 2.16 kg, Temperature 190 °C | @Load 4.76 lb, Temperature 374 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------------------|----------------------------|------------|
| Hardness, Shore A | 97 | 97 | D2240 |
| | @Time 15.0 sec | @Time 0.00417 hour | |
| Hardness, Shore D | 78 | 78 | ASTM D2240 |
| | @Time 15.0 sec | @Time 0.00417 hour | |
| Tensile Strength at Break | <= 60.0 MPa | <= 8700 psi | ISO/R527 |
| Elongation at Yield | 10 % | 10 % | ISO/R527 |
| Flexural Strength | <= 85.0 MPa | <= 12300 psi | ISO 178 |
| Flexural Modulus | 2.70 GPa | 392 ksi | ISO 178 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact Unnotched | NB | NB | ISO 179 |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |
| Charpy Impact, Notched | NB | NB | ISO 179 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 0.400 J/cm ² | 1.90 ft-lb/in ² | ISO 179 |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |
| | 0.600 J/cm ² | 2.86 ft-lb/in ² | ISO 179 |

| Mechanical Properties | @Temperature 23.0 °C Metric | @Temperature 73.4 °F English | Comments |
|--|--------------------------------|---------------------------------|-------------------|
| Thermal Properties | Metric | English | Comments |
| Deflection Temperature at 1.8 MPa (264 psi) | 106 °C | 223 °F | 120°C/h; ISO 75/1 |
| Vicat Softening Point | 152 °C @Load 5.001 kg | 306 °F @Load 11.03 lb | 50°C/h; ISO 306 |
| Flammability, UL94 | HB @Thickness 1.60 mm | HB @Thickness 0.0630 in | |
| Glow Wire Test | 550 °C @Thickness 3.20 mm | 1020 °F @Thickness 0.126 in | IEC 695-2-1 |

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