

Polykemi AB POLYelast TPE EC90 D50 P05B Thermoplastic Elastomer, PP/EPDM

Category : Polymer , Thermoplastic , Elastomer, TPE , Polypropylene (PP)

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYelast-TPE-EC90-D50-P05B-Thermoplastic-Elastomer-PPEPDM.php

| Physical Properties | Metric | English | Comments |
|------------------------|--------------------------------------|--------------------------------------|-----------------------|
| Density | 0.930 g/cc | 0.0336 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage | 0.012 - 0.015 cm/cm | 0.012 - 0.015 in/in | With Flow; ISO 2577 |
| | 0.012 - 0.015 cm/cm | 0.012 - 0.015 in/in | Across Flow; ISO 2577 |
| Melt Index of Compound | 11 g/10 min | 11 g/10 min | ISO 1133 |
| | @Load 2.16 kg, Temperature 230 °C | @Load 4.76 lb, Temperature 446 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------|----------------------------|----------|
| Hardness, Shore D | 53 | 53 | Polykemi |
| | @Time 15.0 sec | @Time 0.00417 hour | |
| Tensile Strength at Break | <= 16.0 MPa | <= 2320 psi | ISO/R527 |
| Elongation at Break | 300 % | 300 % | ISO/R527 |
| Flexural Modulus | 0.650 GPa | 94.3 ksi | ISO 178 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 1.50 J/cm ² | 7.14 ft-lb/in ² | ISO 179 |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |
| | 3.00 J/cm ² | 14.3 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) | 87.0 °C | 189 °F | 120°C/h; ISO 75/1 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature | 240 - 260 °C | 464 - 500 °F | |

| Mold Temperature Processing Properties | 40.0 - 80.0 °C Metric | 104 - 176 °F English | Comments |
|---|--------------------------|-------------------------|----------|
| Back Pressure | 1.00 - 1.50 MPa | 145 - 218 psi | |

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

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