

Polykemi AB POLYblend 85VB PC/ABS-Blend, Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYblend-85VB-PCABS-Blend-Flame-Retardant.php

| Physical Properties | Metric | English | Comments |
|------------------------|--------------------------------------|--------------------------------------|-----------------------|
| Density | 1.21 g/cc | 0.0437 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage | 0.0050 - 0.0070 cm/cm | 0.0050 - 0.0070 in/in | With Flow; ISO 2577 |
| | 0.0050 - 0.0070 cm/cm | 0.0050 - 0.0070 in/in | Across Flow; ISO 2577 |
| Melt Index of Compound | 25 g/10 min | 25 g/10 min | ISO 1133 |
| | @Load 5.00 kg, Temperature 260 °C | @Load 11.0 lb, Temperature 500 °F | |

| Mechanical Properties | Metric | English | Comments |
|------------------------|------------------------|----------------------------|----------|
| Elongation at Yield | 4.5 % | 4.5 % | ISO/R527 |
| Flexural Strength | <= 95.0 MPa | <= 13800 psi | ISO 178 |
| Flexural Modulus | 2.40 GPa | 348 ksi | ISO 178 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 2.50 J/cm ² | 11.9 ft-lb/in ² | ISO 179 |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |
| | 4.00 J/cm ² | 19.0 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) | 128 °C | 262 °F | 120°C/h; ISO 75/1 |
| Deflection Temperature at 1.8 MPa (264 psi) | 108 °C | 226 °F | 120°C/h; ISO 75/1 |
| Vicat Softening Point | 120 °C | 248 °F | 50°C/h; ISO 306 |
| | @Load 5.001 kg | @Load 11.03 lb | |
| Flammability, UL94 | V-0 | V-0 | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

| Thermal Properties | 960 °C Metric | 1760 °F English | Comments |
|--------------------|--------------------|----------------------|----------|
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------------|-------------------|------------------------|
| Melt Temperature | 240 - 280 °C | 464 - 536 °F | |
| Mold Temperature | 70.0 - 100 °C | 158 - 212 °F | |
| Drying Temperature | 80.0 - 100 °C | 176 - 212 °F | |
| Dry Time | 2 - 8 hour | 2 - 8 hour | in circulation dryer |
| | 2 - 8 hour | 2 - 8 hour | in fresh-air dryer |
| | 2 - 8 hour | 2 - 8 hour | in desiccant air dryer |
| Injection Pressure | 90.0 - 150 MPa | 13100 - 21800 psi | |
| Back Pressure | 0.500 - 1.50 MPa | 72.5 - 218 psi | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|-------------------------|
| Holding Pressure () | 20-50 | % of injection pressure |
| Injection Speed () | High | |

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