

Diamond Polymers ASA/PC AP-640

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

Material Notes:

Description: ASA/Polycarbonate Alloy Information provided by Diamond Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-ASAPC-AP-640.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|-------------------------|
| Specific Gravity | 1.14 g/cc | 1.14 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.0040 - 0.0060 cm/cm | 0.0040 - 0.0060 in/in | ASTM D955 |
| Melt Flow | 10 g/10 min @Load 10.0 kg, Temperature 220 °C | 10 g/10 min @Load 22.0 lb, Temperature 428 °F | Procedure A; ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|---------------|--|
| Hardness, Rockwell R | 110 | 110 | ASTM D785 |
| Tensile Strength, Yield | 62.1 MPa | 9000 psi | chs 2 in/min; ASTM D638 |
| Flexural Modulus | 2.63 GPa | 382 ksi | Procedure B, Test Method I(chs 0.05 in/min); ASTM D790 |
| Izod Impact, Notched | 3.74 J/cm | 7.00 ft-lb/in | Test Method A (0.125 in bar); ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------|----------------------|---|
| Deflection Temperature at 1.8 MPa (264 psi) | 100 °C | 212 °F | 0.125 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648 |
| | 110 °C | 230 °F | 0.25 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648 |
| Vicat Softening Point | 137 °C | 279 °F | 0.125 inch, 1 Kg; ASTM D1525 |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |

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