

Diamond Polymers ASA T-120

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

Material Notes:

Description: ASA Weatherable Polymer, Injection Molding Grade, High Heat Resistance Information provided by Diamond Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-ASA-T-120.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| Specific Gravity | 1.07 g/cc | 1.07 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.0030 - 0.0070 cm/cm | 0.0030 - 0.0070 in/in | ASTM D955 |
| Melt Flow | 0.70 g/10 min | 0.70 g/10 min | Procedure A Condition G; ASTM D1238 |
| | @Load 5.00 kg, Temperature 200 °C | @Load 11.0 lb, Temperature 392 °F | |
| | 2.8 g/10 min | 2.8 g/10 min | Procedure A Condition I; ASTM D1238 |
| | @Load 3.80 kg, Temperature 230 °C | @Load 8.38 lb, Temperature 446 °F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|-------------------------------------|
| Hardness, Rockwell R | 104 | 104 | ASTM D785 |
| Tensile Strength, Yield | 47.40 MPa | 6875 psi | chs 2 in/min; ASTM D638 |
| Flexural Modulus | 2.39 GPa | 346 ksi | Tangent, chs 0.05 in/min; ASTM D790 |
| Izod Impact, Notched | 0.908 J/cm | 1.70 ft-lb/in | bar; ASTM D256 |
| | @Thickness 3.17 mm, Temperature 23.0 °C | @Thickness 0.125 in, Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|---|
| Deflection Temperature at 1.8 MPa (264 psi) | 92.2 °C | 198 °F | 0.125 in bar Unannealed/Conditioned 40 hours at 23°C; ASTM D648 |
| | 100 °C | 212 °F | 0.25 in bar Unannealed/Conditioned 40 hours at 23°C; ASTM D648 |
| Vicat Softening Point | 123 °C | 253 °F | 0.125 inch, 1 Kg; ASTM D1525 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 229 - 260 °C | 445 - 500 °F | |
| Middle Barrel Temperature | 232 - 266 °C | 450 - 510 °F | |

| Front Barrel Temperature Processing Properties | 235 - 271 °C Metric | 455 - 520 °F English | Comments |
|---|------------------------|-------------------------|--|
| Nozzle Temperature | 221 - 271 °C | 430 - 520 °F | |
| Melt Temperature | 221 - 271 °C | 430 - 520 °F | Melt temperatures above 530°F are not recommended, and may result in color shifts and or thermal instability. |
| Mold Temperature | 37.8 - 82.2 °C | 100 - 180 °F | Higher mold temperature can aid flow in processing, provides a better surface finish, and creates less residual stress in the finished products. |
| Drying Temperature | 80.0 - 85.0 °C | 176 - 185 °F | |
| Dry Time | 2 - 4 hour | 2 - 4 hour | |
| Moisture Content | <= 0.10 % | <= 0.10 % | |
| Back Pressure | 0.517 - 1.03 MPa | 75.0 - 150 psi | |

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