

Diamond Polymers ABS 9301

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

Material Notes:

Description: Extrusion Grade, Low Gloss
Information provided by Diamond Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-ABS-9301.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| Specific Gravity | 1.04 g/cc | 1.04 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.0040 - 0.0060 cm/cm | 0.0040 - 0.0060 in/in | ASTM D955 |
| Melt Flow | 0.60 g/10 min | 0.60 g/10 min | Procedure A Condition G; ASTM D1238 |
| | @Load 5.00 kg, Temperature 200 °C | @Load 11.0 lb, Temperature 392 °F | |
| | 2.1 g/10 min | 2.1 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 | 100 | 100 | ASTM D785 |
| Tensile Strength, Yield | 42.7 MPa | 6200 psi | chs 2 in/min; ASTM D638 |
| Flexural Modulus | 2.07 GPa | 300 ksi | Tangent, chs 0.05 in/min; ASTM D790 |
| Izod Impact, Notched | 4.81 J/cm | 9.00 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) | 75.0 °C | 167 °F | 0.125 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648 |
| | 90.0 °C | 194 °F | 0.125 in bar Annealed 4 hours at 80°C; ASTM D648 |
| Vicat Softening Point | 104 °C | 219 °F | 0.125 inch, 1 Kg; ASTM D1525 |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Middle Barrel Temperature | 200 - 220 °C | 392 - 428 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------------|---------------|---|
| Mold Temperature | 40.0 - 60.0 °C | 104 - 140 °F | Higher mold temperature provides a product with excellent surface finishing and less residual stress. |
| Drying Temperature | 80.0 - 85.0 °C | 176 - 185 °F | |
| Dry Time | 2 - 4 hour | 2 - 4 hour | |
| Injection Pressure | 4.83 - 6.21 MPa | 700 - 900 psi | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China