

Spartech Acrylloy 10 Acrylic Sheet

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Optical Sheet

Material Notes:

Description: Acrylic Sheet Information provided by Spartech.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-Acrylloy-10-Acrylic-Sheet.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|-----------|
| Specific Gravity | 1.15 g/cc | 1.15 g/cc | ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|---------------|------------------|
| Hardness, Rockwell R | 106 | 106 | ASTM D785 |
| Tensile Strength, Yield | 37.9 MPa | 5500 psi | ASTM D638 |
| Tensile Modulus | 1.52 GPa | 220 ksi | ASTM D638 |
| Flexural Yield Strength | 71.0 MPa | 10300 psi | ASTM D790 |
| Flexural Modulus | 1.86 GPa | 270 ksi | ASTM D790 |
| Izod Impact, Unnotched | 0.587 J/cm | 1.10 ft-lb/in | ASTM D256 |
| Falling Dart Impact | 13.6 J | 10.0 ft-lb | 73°F; ASTM D3029 |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------------|---------------------------------------|-----------|
| CTE, linear | 101 $\mu\text{m/m-}^\circ\text{C}$ | 56.0 $\mu\text{in/in-}^\circ\text{F}$ | ASTM D696 |
| | @Temperature 20.0 $^\circ\text{C}$ | @Temperature 68.0 $^\circ\text{F}$ | |
| Deflection Temperature at 1.8 MPa (264 psi) | 76.7 $^\circ\text{C}$ | 170 $^\circ\text{F}$ | ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|---------------------|
| Gloss | 90 % | 90 % | Gardner; ASTM D2523 |

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