

GEHR Plastics ABS Acrylonitrile Butadiene Styrene

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Acrylonitrile Butadiene Styrene copolymer has a good thermal and dimensional stability and scratch resistance. Advantages good mechanical strength resists scratching high surface strength high impact strength low Moisture absorption high dimensional stability not weather resistant limited resistance to alkalines and acids Applications Food industry Refrigeration industry

Order this product through the following link:

http://www.lookpolymers.com/polymer_GEHR-Plastics-ABS-Acrylonitrile-Butadiene-Styrene.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|----------|
| Specific Gravity | 1.04 g/cc | 1.04 g/cc | ISO 1183 |
| Water Absorption | 0.40 % | 0.40 % | ISO 62 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------|----------------------------|---------------|
| Hardness, Rockwell R | 105 | 105 | |
| Hardness, Shore D | 70 | 70 | DIN 53505 |
| Tensile Strength, Yield | 45.0 MPa | 6530 psi | ISO 527 |
| Modulus of Elasticity | 2.26 GPa | 328 ksi | ISO 527 |
| Flexural Strength | 67.0 MPa | 9720 psi | 3.5%; ISO 178 |
| Charpy Impact Unnotched | 33.3 J/cm ² | 158 ft-lb/in ² | ISO 179 |
| Charpy Impact, Notched | 3.70 J/cm ² | 17.6 ft-lb/in ² | ISO 179 |

| Thermal Properties | Metric | English | Comments |
|---|-----------|-----------|-------------------|
| Maximum Service Temperature, Air | 70.0 Â°C | 158 Â°F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 100 Â°C | 212 Â°F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 88.0 Â°C | 190 Â°F | ISO 75 |
| Vicat Softening Point | 103 Â°C | 217 Â°F | VST/B/50; ISO 306 |
| Minimum Service Temperature, Air | -50.0 Â°C | -58.0 Â°F | |
| Flammability, UL94 | HB | HB | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Acid Resistance | yes | |

| Descriptive Properties | Value | Comments |
|--------------------------------------|---------|----------|
| Aromatic Resistance | no | |
| Bondability | yes | |
| CKW Resistance | no | |
| Color | Natural | |
| Hydrocarbonate Resistance | limited | |
| Hydroxide Resistance | no | |
| Ketone Resistance | limited | |
| Physiological indifference according | no | |
| Resistance Against Hot Water | limited | |
| UV Stabilization | no | |

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