

RESIN

ALTUGLAS® HFI-7

| | | CONDITIONS | TEST METHOD | UNITS | |
|---------------------------------------|-------------|--------------|-------------|--------------------|-------------------|
| 1 - GENERAL PROPERTIES | | | | | |
| Density | | | ISO 1183 | g/cm ³ | 1,17 |
| Water Absorption | | 23°C/50%HR | ISO 62 | % | 0,33 |
| Mold Shrinkage | | | ASTM D-955 | % | 0,2-0,6 |
| 2 - RHEOLOGICAL PROPERTIES | | | | | |
| Rheology | | | | | |
| Melt Flow Index | | 230°C/3,8 kg | ISO 1133 | g/10 min | 11 |
| Process | | | | | |
| Melt Temperature | mini | | | °C | 220 |
| | maxi | | | | 230 |
| Mold Temperature | mini | | | °C | 70 |
| | maxi | | | | 80 |
| Drying Conditions | time | | | h | 4 |
| | temperature | | | °C | 80 |
| 3 - MECHANICAL PROPERTIES | | | | | |
| Rockwell Hardness | | | ASTM D-785 | | M-65 |
| Tensile Strength | | 23°C | ISO 527-2 | MPa | 48 |
| Elongation at break | | 23°C | ISO 527-2 | % | 25 |
| Flexural Modulus | | 23°C | ISO 178 | MPa | 2300 |
| Flexural Strength | | 23°C | ISO 178 | MPa | 72 |
| Compressive Strength | | 23°C | ISO 604 | MPa | 72 |
| Impact Resistance (Charpy, Notched) | | 23°C | ISO 179-2C | kJ/m ² | 3 |
| Impact Resistance (Charpy, Unnotched) | | 23°C | ISO 179-2D | kJ/m ² | 35 |
| Impact Resistance (Izod, Notched) | | 23°C | ISO 180/1a | kJ/m ² | 3,2 |
| 4 - OPTICAL PROPERTIES | | | | | |
| Refractive Index B | | | ISO R-489 | | 1,49 |
| Light Transmittance | | | ASTM D-1003 | % | 92 |
| Haze | | | ASTM D-1003 | % | 1,5 |
| 5 - ELECTRICAL PROPERTIES | | | | | |
| Dielectric Strength | | | ASTM D-149 | MV/m | 17,7 |
| Dielectric Constant | | 60 Hz | ASTM D-150 | | 3,8 |
| Dissipation Factor | | 1 MHz | ASTM D-150 | | 0,04 |
| Surface Resistivity | | | ASTM D-257 | Ohm | >10 ¹⁴ |
| Volume Resistivity | | | ASTM D-257 | Ohm.cm | >10 ¹⁵ |
| 6 - THERMAL PROPERTIES | | | | | |
| Vicat Softening Temperature | | 50 N | ISO 306 | °C | 90 |
| HDT | | 1,82 MPa | ISO 75-2 | °C | 83 |
| | | 0,45 MPa | | | 88 |
| Coefficient of linear expansion | | [-30°C;23°C] | ASTM D-696 | 10 ⁻⁶ K | 80 |
| Specific Heat | | | | J/(kg.°C) | 2093 |
| 7 - FLAMMABILITY | | | | | |
| Fire Resistance | | | ASTM UL/94 | Class | HB |

N.B.: The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make best use of our products. Values reported are typical and should not be used for specification purposes.

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