

Product Information

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ACRYLITE® FT15 acrylic polymer

Product Profile:

ACRYLITE FT15 polymer is an amorphous thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA). ACRYLITE FT15 polymer is available in transparent and a range of opaque colors including deep jet black.

Typical properties of ACRYLITE® acrylic polymers are:

- excellent weather resistance
- high light transmission
- high mechanical strength
- high surface hardness and mar resistance
- good melt flow rate
- versatile colorability due to crystal clarity

The special properties of ACRYLITE FT15 polymer are:

- high heat resistance
- available in transparent and a range of opaque colors
- medium melt flow rate
- AMECA listed

Application:

Used for injection molding and extrusion applications.

Examples:

Automotive surface parts (e.g. exterior appliqué); automotive lights, and luminaire covers for high heat lighting applications (exterior and interior).

Processing:

ACRYLITE FT15 polymer can be processed in injection molding machines and extrusion lines with 3- zone general purpose screws.

Packaging:

Available in 1500 lb. gaylord boxes; other packaging available on request.

Properties:

| | Parameter | Unit | Standard | ACRYLITE® FT15 polymer |
|--|---------------|------------------------|-------------|------------------------|
| Mechanical Properties | | | | |
| Tensile Modulus | 1 mm/min | MPa | ISO 527 | 3500 |
| Stress @ Break | 5 mm/min | MPa | ISO 527 | 50 |
| Strain @ Break | 5 mm/min | % | ISO 527 | 3.1 |
| Charpy Impact Strength | 23°C | kJ/m ² | ISO 179/1eU | 18 |
| Thermal Properties | | | | |
| Vicat Softening Temperature | B / 50 | °C | ISO 306 | 115 |
| Glass Transition Temperature | | °C | IEC 10006 | 121 |
| Deflection Temperature Under Load | 0.45 MPa | °C | ISO 75 | 107 |
| Deflection Temperature Under Load | 1.8 MPa | °C | ISO 75 | 105 |
| Fire Rating | | | DIN 4102 | B2 |
| Flammability UL 94 | 1.6 mm | Class | IEC 707 | HB |
| Glow Wire Ignition Temperature | | °C | IEC 60695-2 | 675 |
| Rheological Properties | | | | |
| Melt Volume Rate, MVR | 230°C & 3.8kg | cm ³ /10min | ISO 1133 | 4.5 |
| Optical Properties | | | | |
| Transmission Factor | d=3 mm | | | |
| Transmission Factor | D65/10° | % | ISO 13468-2 | 91 or Opaque |
| Refractive Index | | | ISO 489 | 1.502 or Opaque |
| Other Properties | | | | |
| Density | | g/cm ³ | ISO 1183 | 1.19 |
| Recommended Processing Conditions | | | | |
| Predrying Temperature | | °C | | 100 |
| Predrying Time | | h | | 3 - 4 |
| Melt Temperature | | °C | | 220 - 250 |
| Mold Temperature | | °C | | 70 - 95 |

All listed technical data are typical values intended for your guidance. They are given without obligation and do not constitute a materials specification.

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