

PLEXIGLAS® Heatresist FT15

Product Profile:

PLEXIGLAS® Heatresist FT15 is a special acrylic-based polymer.

With regard to its

- good weather resistance and
- high light transmission,

PLEXIGLAS® Heatresist FT15 shows comparable properties to those of PLEXIGLAS® standard molding compounds. In addition, PLEXIGLAS® Heatresist FT15 offers the special benefit of a

- high heat deflection temperature combined with good flow.

Application:

PLEXIGLAS® Heatresist FT15 is particularly suitable for injection moldings.

Examples:

luminaire covers, automotive lights and technical moldings exposed to high temperatures.

Processing:

PLEXIGLAS® Heatresist FT15 can be processed on injection-molding machines with for PMMA suitable 3-zone-screw. Good pre-desiccation must be pointed out.

Physical Form / Packaging:

PLEXIGLAS® Heatresist FT15 is supplied as pellets of uniform size, packaged in 25kg, two-ply polyethylene bags; other packaging on request.

Properties:

	Parameter	Unit	Standard	PLEXIGLAS® Heatresist FT15
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
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	107
Temp. of Deflection 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				
Luminous transmittance	d=3 mm	%	ISO 13468-2	91
Refractive Index			ISO 489	1.502
Other Properties				
Density		g/cm ³	ISO 1183	1.19
Recommended Processing Conditions				
Predrying Temperature		°C		100
Predrying Time in Desiccant-Type Drier		h		4 - 6
Melt Temperature		°C		220 - 250
Mold Temperature (Injection Molding)		°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.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

The Business Unit Performance Polymers of Evonik is a worldwide manufacturer of PMMA molding compounds sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian Continent and under the trademark ACRYLITE® in the Americas.

® = registered trademark

PLEXIGLAS and PLEXIMID are registered trademarks of Evonik Röhm GmbH, Darmstadt, Germany

Evonik Röhm GmbH Kirschenallee 64293 Darmstadt
 Telefon +49 6151 18-4711 Telefax +49 6151 18-3177
www.plexiglas-polymers.com

Ref. No.: MC100-E v0160 Date: 2011-04-04