

# Plexiglas® Heatresist FT15

Polymethyl Methacrylate Acrylic

Evonik Industries AG

## Message:

### 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.

General Information			
UL YellowCard	E65495-588643		
Features	Good Flow		
	Good Weather Resistance		
	Light Stabilized		
Uses	Automotive Applications		
	Automotive Exterior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	4.50	cm <sup>3</sup> /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2/1
Tensile Stress (Break)	50.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.1	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	18	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	107	°C	ISO 75-2/B
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
Glass Transition Temperature	121	°C	ISO 11357-2
Vicat Softening Temperature	115	°C	ISO 306/B50

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature	675	°C	IEC 60695-2-13
Fire Rating	B2		DIN 4102
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.502		ISO 489
Transmittance <sup>1</sup>	91.0	%	ISO 13468-2
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	220 to 250	°C	
Mold Temperature	70.0 to 95.0	°C	
NOTE			
1.	D65		

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