Pleximid® TT70

Polymethyl Methacrylimide Acrylic

Evonik Industries AG

Message:

Product Profile:
PLEXIMID® TT70 is a highly heat distortion-resistant poly(n-methyl methacrylimide) (PMMI).
Besides showing the properties common to all PLEXIMID® molding compounds, such as
excellent transmission and clarity,
very high mechanical strength and rigidity,
good weather resistance.
PLEXIMID® TT70 has the following specific
characteristics:
high stability of the optical characteristics at long-lasting thermal load,
highest heat deflection temperature under load.
Application:
PLEXIMID® molding compound is particularly suitable for injection molding of items meant for applications that involve maximum thermal loads.
Examples: lenses, light guides, lighting fixtures, covers.
Processing:
PLEXIMID® molding compound can be processed on injection molding machines with standard 3-zone general purpose screws for thermoplastics.
PLEXIMID® is supplied as pellets of uniform size in aluminum-laminated, 25kg polyethylene bags.

General Information			
Additive	Mold Release		
Features	Good Thermal Stability Good Weather Resistance High Clarity High Heat Resistance High Rigidity High Strength Opticals		
Uses	Lenses Lighting Fixtures Protective Coverings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.21	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/10.0 kg)	1.7	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	6.0	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4000	MPa	ISO 527-2/1
Tensile Stress (Break)	80.0	MPa	ISO 527-2/5

Tensile Strain (Break)	3.0	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	20	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	158	°C	ISO 75-2/B
1.8 MPa, Unannealed	149	°C	ISO 75-2/A
Vicat Softening Temperature	170	°C	ISO 306/B50
Flammability	**Nominal Value**		**Test Method**
Fire Rating	B2		DIN 4102
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.540		ISO 489
Transmittance [1]	91.0	%	ISO 13468-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	< 150	°C	
Drying Time	2.0 to 3.0	hr	
Processing (Melt) Temp	260 to 290	°C	
Mold Temperature	130	°C	
NOTE			
1.	D65		

Recommended distributors for this material

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