ACRYMID® TT70

Polymethyl Methacrylimide Acrylic

Evonik Cyro LLC

Message:

ACRYMID® TT70 is a highly heat distortion-resistant poly(n-methyl methacrylimide) (PMMI).
Besides showing the properties common to all ACRYMID® molding compounds, such as
excellent transmission and clarity,
very high mechanical strength and rigidity,
good weather resistance.
ACRYMID® TT70 has the following specific characteristics:
high stability of the optical characteristics at long-lasting thermal load,
highest heat deflection temperature under load.
Application:
ACRYMID® molding compound is particularly suitable for injection molding of items meant for applications that involve maximum thermal loads.

General Information			
Features	Good Weather Resistance		
	High Clarity		
	High Heat Resistance		
	High Rigidity		
	High Strength		
Uses	Lenses		
	Lighting Applications		
	Lighting Fixtures		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.21	g/cm^3	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/10.0 kg)	1.70	$cm^3/10min$	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	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
Flame Rating (1.60 mm)	HB		UL 94
Fire Rating	B2		DIN 4102
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.540		ISO 489
Transmittance	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	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China