Plexiglas® Optical POQ62

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® Optical POQ62 is an amorphous thermoplastic molding compound based on polymethylmethacrylate (PMMA).
In addition to the familiar properties of PLEXIGLAS® molding compounds, such as
excellent light transmission and brilliance,
very good weather resistance,
high mechanical strength, surface hardness and mar resistance,
PLEXIGLAS® Optical POQ62 is distinguished by its
guaranteed purity and clarity,
outstanding flow properties due to its low melt viscosity and its
extremely accurate mold surface reproduction.
Application:
PLEXIGLAS® Optical POQ62 is particularly suitable for injection-compression molding and for injection-molding thin-walled parts with long flow paths.
Further fields of application are two-component injection molding and special extrusion.
Examples:
Manufacture of moldings with microstructured surfaces and optical structures.

General Information	
UL YellowCard	E65495-100986376
Features	Good Flow Good Weather Resistance High Clarity High Hardness High Strength Light Stabilized
Uses	Optical Applications
Forms	Pellets
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	21.0	cm³/10min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	0.60	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3300	MPa	ISO 527-2/1
Tensile Stress (Break)	63.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.8	%	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
Vicat Softening Temperature	97.0	°C	ISO 306/B50
CLTE - Flow (0 to 50°C)	8.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Fire Rating	B2		DIN 4102
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ISO 489
Transmittance [1]	92.0	%	ISO 13468-2
Haze	< 0.50	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	< 80.0	°C	
Drying Time	2.0 to 3.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	60.0 to 90.0	°C	
NOTE			
1.	D65		

Recommended distributors for this material

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