Plexiglas® Optical POQ64

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® Optical POQ64 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 POQ64 is distinguished by its
guaranteed purity and clarity,
very good flow properties,
high luminous efficiency in medium to long light paths.
Application:
PLEXIGLAS® Optical POQ64 is excellently suited for the injection molding or injection-compression molding of technical components to meet stringent optical requirements.
Examples:
Small to medium-sized injection-molded or injection compression-molded lightguide panels for display applications, lightguides.

General Information			
UL YellowCard	E65495-100986377		
Features	Good Flow Good Weather Resistance High Clarity High Hardness High Strength Light Stabilized		
Uses	Optical Applications		
Forms	Pellets		
Processing Method	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)	9.00	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3300	MPa	ISO 527-2/1
Tensile Stress (Break)	49.0	MPa	ISO 527-2/5
Tensile Strain (Break)	1.8	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	17	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	97.0	°C	ISO 75-2/A

Vicat Softening Temperature	104	°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
Injection	Nominal Value	Unit	
Drying Temperature	< 90.0	°C	
Drying Time	2.0 to 3.0	hr	
Processing (Melt) Temp	220 to 240	°C	
Mold Temperature	60.0 to 90.0	°C	
NOTE			
1.	D65		

Recommended distributors for this material

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