

PLEXIGLAS® Edgelight 8N LD12

PMMA

Röhm GmbH

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	3	cm³/10min	ISO 1133
Temperature	230	°C	-
Load	3.8	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3300	MPa	ISO 527
Stress at Break	77	MPa	ISO 527
Strain at Break	5.5	%	ISO 527
Impact Strength (Charpy), +23°C	20	kJ/m²	ISO 179/1eU

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Glass Transition Temperature (10°C/min)	117	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	98	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	103	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	108	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	80	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB	class	UL 94
Thickness tested	1.5	mm	-

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1190	kg/m³	ISO 1183

Material Specific Properties	Value	Unit	Test Standard
ISO Data			
Luminous transmittance	90	%	ISO 13468-1, -2

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Haze	5 ^[1]	%	ASTM D 1003
Index of Refraction	1.49 ^[2]	-	ISO 489
2: 3 mm			

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	≤98	°C	-
Pre-drying - Time	2 - 3	h	-
Melt temperature	220 - 260	°C	-
Mold temperature	60 - 90	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets

Special Characteristics

Light stabilized or stable to light, UV stabilized, Transparent

Features

High Gloss, Light Diffusing

Applications

Electrical and Electronical