PLEXIGLAS® proTerra 8N

PMMA — Röhm GmbH

Product Texts

25% Sustainable share attributed via mass balance approach, confirmed by ISCC-PLUS sustainability declaration.

Processing/Physical Characteristics	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
Charpy impact strength, +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, B	**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	IEC 60695-11-10
Thickness tested	**1.5**	mm	-

Optical properties	Value	Unit	Test Standard
ISO Data			
Luminous transmittance	**92**	%	ISO 13468-1, -2
ASTM Data			
Haze	**0.5**	%	ASTM D 1003
Other Standards[S]			
Index of Refraction	**1.49**	-	ISO 489

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
Density	**1190**	kg/m³	ISO 1183

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

Delivery form
Pellets

Special Characteristics
U.V. stabilized or stable to weather, Transparent

Features
Amorphous, Light Guiding

Certifications
ISCC Plus

Applications
Automotive, Electrical and Electronical

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa