

Technical Data Sheet

Polylux (MABS) Typ C1

Methyl Methacrylate / ABS
 LyondellBasell Industries
 Engineering Plastics

Product Description
 Good flow transparent ABS grade

General	
Appearance	• Clear/Transparent
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• MABS

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.10 g/cm ³	1.10 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 Kg)	22 cm ³ /10min	22 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	319000 psi	2200 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	7250 psi	50.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5 %	3.5 %	ISO 527-2/1A/50

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	4.8 ft-lb/in ²	10 kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (73°F (23°C))	5.2 ft-lb/in ²	11 kJ/m ²	ISO 180/4A

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	17400 psi	120 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	198 °F	92.0 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	174 °F	79.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	203 °F	95.0 °C	ISO 306/B50
--	217 °F	103 °C	ISO 306/A50

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 In (1.5 Mm))	HB	HB	UL 94

Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	158 °F	70 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	392 to 464 °F	200 to 240 °C

Notes

These are typical property values not to be construed as specification limits.