

Implex® Implex Plus

Polymethyl Methacrylate Acrylic

Altuglas International of Arkema Inc.

Product Description

Additional Application(s):
Quantity and Custom Signs

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Good Impact Resistance • Good Processability • Good Toughness	• Good UV Resistance • Good Weather Resistance • High Clarity	• Machinable • Paintable • Solvent Resistant
Forms	• Sheet		
Processing Method	• Thermoforming		

Physical

	Nominal Value Unit	Test Method
Specific Gravity	1.18 g/cm ³	ASTM D792

Mechanical

	Nominal Value Unit	Test Method
Tensile Modulus	2480 MPa	ASTM D638
Tensile Strength (Yield)	55.8 MPa	ASTM D638
Tensile Elongation (Yield)	4.8 %	ASTM D638
Flexural Modulus	2690 MPa	ASTM D790
Flexural Strength (Yield)	96.5 MPa	ASTM D790
Compressive Strength	101 MPa	ASTM D695

Impact

	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 12.7 mm)	36 J/m	ASTM D256

Hardness

	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	75	ASTM D785

Thermal

	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	84.4 °C	ASTM D648
CLTE - Flow	0.000074 cm/cm/°C	ASTM D696
Thermal Conductivity	0.091 W/m/K	ASTM C177

Optical

	Nominal Value Unit	Test Method
Refractive Index	1.490	ASTM D542
Transmittance	91.1 %	ASTM D1003
Haze	2.5 %	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.