

Altuglas® Diffuse 101

PMMA

Altuglas International

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	3.5	g/10min	ISO 1133
Temperature	230	°C	-
Load	3.8	kg	-
ASTM Data			
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	65	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	65	MPa	ISO 527
Strain at break	5	%	ISO 527
Flexural modulus, 23°C	3300	MPa	ISO 178
Charpy impact strength, +23°C	10	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	1.8	kJ/m ²	ISO 180/1A
ASTM Data			
Rockwell Hardness	M 92	-	ASTM D 785

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	95	°C	ISO 75-1/-2
Vicat softening temperature, B	103	°C	ISO 306
ASTM Data			
UL 94 Flame rating	HB	-	UL 94

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	100	%	ASTM D 1003
Light Transmittance	91	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1190	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	75 - 80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	220 - 240	°C	-
Mold temperature	70 - 80	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Transparent

Regional Availability

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