

Altuglas® Diffuse 501

PMMA

Altuglas International

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	0.9	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	37	MPa	ISO 527
Yield strain	4.5	%	ISO 527
Stress at break	37	MPa	ISO 527
Strain at break	24	%	ISO 527
Flexural modulus, 23°C	1750	MPa	ISO 178
Charpy impact strength, +23°C	31	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	2.6	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	3.1	kJ/m ²	ISO 180/1A
ASTM Data			
Rockwell Hardness	M 56	-	ASTM D 785

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	86	°C	ISO 75-1/-2
Vicat softening temperature, B	94	°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	76	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1150	kg/m ³	ISO 1183

Characteristics**Regional Availability**

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