

AX-01D.GY.

PMMA

Next Polymers Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	4	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	3.8	kg	-
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.004	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	3200	MPa	ASTM D 638
Tensile Strength	68	MPa	ASTM D 638
Elongation at Break	9	%	ASTM D 638
Flexural Modulus	3100	MPa	ASTM D 790
Flexural Strength	115	MPa	ASTM D 790
Rockwell Hardness	M 98	-	ASTM D 785
Izod Impact notched, 1/8 in	19.6	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Coefficient of Thermal Expansion, MD	70	E-6/K	ASTM D 696
DTUL @ 264 psi	104	°C	ASTM D 648
Vicat Temperature	112	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	20	kV/mm	IEC 60243-1
ASTM Data			
Dielectric Constant, 60 Hz	3.1	-	ASTM D 150

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	0.4	%	ASTM D 1003
Index of Refraction	1.49	-	ASTM D 542

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.3	%	ASTM D 570
Density	1190	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Applications

Automotive

Special Characteristics

Heat stabilized or stable to heat, Transparent

Regional Availability

Asia Pacific