

**AX-01UL.GY.**

PMMA

Next Polymers Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
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
<b>ASTM Data</b>			
Tensile Modulus	3200	MPa	ASTM D 638
Tensile Strength	70	MPa	ASTM D 638
Elongation at Break	11	%	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	24.5	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
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
<b>ISO Data</b>			
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
<b>ASTM Data</b>			
Dielectric Constant, 60 Hz	3.1	-	ASTM D 150

Optical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Haze	0.45	%	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 <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive

**Special Characteristics**

Heat stabilized or stable to heat, Transparent

**Regional Availability**

Asia Pacific