

AX-01RD.(MH-4152)

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 | 0.003 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.003 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| ASTM Data | | | |
| Tensile Modulus | 3400 | MPa | ASTM D 638 |
| Tensile Strength | 70 | MPa | ASTM D 638 |
| Elongation at Break | 10 | % | ASTM D 638 |
| Flexural Modulus | 3200 | MPa | ASTM D 790 |
| Flexural Strength | 120 | MPa | ASTM D 790 |
| Rockwell Hardness | M 100 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 24.5 | 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 | 102 | °C | ASTM D 648 |
| Vicat Temperature | 109 | °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 | | | |
| Light Transmittance | 91 | % | 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 | 1180 | 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