

**Mitsubishi Chemical Advanced Materials PROTEUS® EURO-GRAY Copolymer Polypropylene**
**Categories:** Polymer; Renewable/Recycled Polymer; Thermoplastic; Polypropylene (PP)

**Material Notes:** Quadrant Engineering Plastic Products is now Mitsubishi Chemical Advanced Materials.

Physical Properties	Metric	English	Comments
Specific Gravity	0.905 g/cc	0.905 g/cc	ASTM D792
Water Absorption	<= 0.010 %	<= 0.010 %	Immersion, 24hr; ASTM D570(2)
Water Absorption at Saturation	<= 0.010 %	<= 0.010 %	Immersion; ASTM D570(2)
Mechanical Properties	Metric	English	Comments
Hardness, Shore D	73	73	ASTM D2240
Tensile Strength	21.3 MPa	3090 psi	ASTM D638
Tensile Strength at 65°C (150°F)	2.76 MPa	400 psi	ASTM D638
Elongation at Break	265 %	265 %	ASTM D638
Tensile Modulus	0.586 GPa	85.0 ksi	ASTM D638
Flexural Strength	36.2 MPa	5250 psi	ASTM D790
Flexural Modulus	0.944 GPa	137 ksi	ASTM D790
Compressive Strength	26.2 MPa	3800 psi	10% Def.; ASTM D695
Compressive Modulus	0.861 GPa	125 ksi	ASTM D695
Izod Impact, Notched	NB	NB	ASTM D256 Type A
Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	>= 1.00e+14 ohm	>= 1.00e+14 ohm	ASTM D257
Thermal Properties	Metric	English	Comments
Melting Point	152 °C	305 °F	Crystalline, Peak; ASTM D3418
Maximum Service Temperature, Air	82.2 °C	180 °F	Long Term
Deflection Temperature at 1.8 MPa (264 psi)	87.8 °C	190 °F	ASTM D648
Flammability, UL94	HB @Thickness 3.17 mm	HB @Thickness 0.125 in	Estimated Rating



Email: [info@polymershapes.com](mailto:info@polymershapes.com)

Call: 1 (866) 437-7427

[www.polymershapes.com](http://www.polymershapes.com)