



QUADRANT

PROTEUS® PREMIUM GLOSS

For General Purpose Applications in Wet an Dry Environments Where Ease of Fabrication is Important

Product Profile:

- Film masked 1 side (2 sides available in white only)
- Thermoforming performance
- Meets FDA requirements for food contact, Reg. 21CFR177.1520
- Rigid
- Light-weight
- Resists stress cracking
- Easily fabricated
- High impact strength
- Good electrical properties



Using advanced quality control measuring systems, Quadrant has systematically and dramatically achieved the bright white specified by the semiconductor industry. With all the advantages of our original Proteus® Homopolymer, Proteus® Premium Gloss has a gloss second to none.

Proteus® Premium Gloss is available in the following colors and sizes:

- Bright White, stress relieved, one side film masked (two-sided masking is available on request) — 48" x 96" and 48" x 120" sheets with gauge sizes ranging from 1/8" to 1"; 60" x 120" sheets with five gauge sizes ranging from 1/8" to 3/4"
- Black, stress relieved, one side film masked — 48" x 96" sheets with gauge sizes ranging from 1/8" to 1"

Industries	Applications
Chemical handling and storage Laboratory equipment Semiconductor	Chemical storage tanks Chip & wafer processing equipment Lab equipment cabinetry Wet process workstations

Dallas, Texas (Corporate Offices)
Houston, Texas
Brandon, Mississippi

phone 800-782-1836 / 214-239-3870
phone 800-282-4388 / 713-979-0660
phone 800-457-8623 / 601-825-7919

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DATA SHEET			
PROTEUS® White Homopolymer Polypropylene			
Property	Units	Test Method	Typical Average Values
Mechanical			
Specific Gravity, 73° F	-	ASTM D792	.91
Yield Point, 73° F	psi	ASTM D638	4000
Tensile Elongation (at Yield), 73° F	%	ASTM D638	12
Tensile at Break, 73° F	psi	ASTM D638	4800
Tensile Elongation (at break), 73° F	%	ASTM D638	300
Tensile Modulus of Elasticity, 73° F	psi	ASTM D638	173000
Flexural Modulus of Elasticity, 73° F	psi	ASTM D790	180000
Izod Impact (notched), 73° F	ft.lb./in.	ASTM D256 Type "A"	1.9
Hardness, Durometer, Shore "D" Scale, 73° F	-	ASTM D2240	78
Thermal			
Heat Deflection Temperature 66 psi	°F	ASTM D648	210
Melting Point (crystalline) peak	°F	ASTM D3418	327
Continuous Service Temperature in Air (Max.)(1)	°F	-	180
Electrical			
Volume Resistivity	Ohm-cm	ASTM D257	>10 ¹⁵
Surface Resistivity	Ohm	ASTM D257	>10 ¹⁵
Flammability @ 3.1 mm (1/8 in.) (3)	-	UL94	HB
Miscellaneous			
Water Absorption	% by wt.	ASTM D570(2)	

- (1) Data represent Quadrant's estimated maximum long-term service temperature based on practical field experience.
- (2) Specimens: 1/8" thick x 2" diameter or square.
- (3) **Estimated rating based on available data.** The UL 94 Test is a laboratory test and does not relate to actual fire hazard. Contact Quadrant for specific UL "Yellow Card" recognition number.

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