



Data Sheet No: 10508  
Revision: 01  
Effective Date: 29JUL2011

DATA SHEET			
PROTEUS® Natural Co-Polymer Polypropylene			
Property	Units	Test Method	Typical Average Values
<b>Mechanical</b>			
Specific Gravity, 73° F	-	ASTM D792	.90
Yield Point, 73° F	psi	ASTM D638	3,400
Elongation at Yield, 73° F	%	ASTM D638	11
Tensile Break, 73° F	psi	ASTM D638	4,800
Elongation at Break, 73° F	%	ASTM D638	300
Tensile Modulus of Elasticity, 73° F	psi	ASTM D638	152,000
Flexural Modulus of Elasticity, 73° F	psi	ASTM D790	180,000
Hardness, Durometer, Shore "D" Scale, 73° F	-	ASTM D2240	72
Izod Impact (notched), 73° F	ft.lb./in.	ASTM D256 Type "A"	8
<b>Thermal</b>			
Heat Deflection Temperature 264 psi	°F	ASTM D648	212
Melting Point (crystalline) peak	°F	ASTM D3418	305
Continuous Service Temperature in Air (Max.)(1)	°F	-	180
<b>Electrical</b>			
Volume Resistivity	Ohm-cm	ASTM D257	>10 <sup>15</sup>
Surface Resistivity	Ohm	ASTM D257	>10 <sup>15</sup>
Flammability @ 3.1 mm (1/8 in.) (3)	-	UL94	HB
<b>Miscellaneous</b>			
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.