

# Quadrant EPP Proteus® Natural PPH

Polypropylene Homopolymer  
Quadrant Engineering Plastic Products

Message:

Quadrant EPP Proteus® Natural PPH is a Polypropylene Homopolymer (PP Homopolymer) product. It is available in North America. Typical application: Food Contact Applications.  
Characteristics include:  
Flame Rated  
Chemical Resistant  
Homopolymer

General Information			
Features	Acid Resistant		
	Alcohol Resistant		
	Alkali Resistant		
	Homopolymer		
	Machinable		
Agency Ratings	FDA Unspecified Rating		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.910	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	< 0.010	%	
Saturation	< 0.010	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	78		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1310	MPa	ASTM D638
Tensile Strength (Ultimate)	33.1	MPa	ASTM D638
Tensile Elongation (Break)	14	%	ASTM D638
Flexural Modulus	1340	MPa	ASTM D790
Flexural Strength (Yield)	33.1	MPa	ASTM D790
Compressive Modulus	1380	MPa	ASTM D695
Compressive Strength (10% Strain,23°C)	34.5	MPa	ASTM D695
Coefficient of Friction (vs. Steel - Static)	0.25		Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	64	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	98.9	°C	ASTM D648

Maximum Use Temperature - Long Term, Air	82	°C	
Peak Crystallization Temperature (DSC)	164	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	HB		UL 94

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#### Recommended distributors for this material

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