

PP - Specifications

Description

PP (Polypropylene) material is tough and flexible. It also has good resistance to fatigue. It is rugged and usually resistant to many chemical solvents, bases and acids.

Applications

- Laboratory equipment
- Automotive components
- Reusable containers of various types

Electrical Properties

Surface resistivity per square ASTM D-257	$\geq 1.00e+15$ Ohm
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Physical Properties

Specific gravity ASTM D-792	0.910 g/cc
Water absorption, Immersion ASTM D-570(2), 24hrs	$\leq 0.010\%$
Water absorption, Immersion ASTM D-570(2), Saturation	$\leq 0.010\%$

Thermal Properties

Flammability, UL 94 1/8 inch (Estimated Rating)	HB
Maximum service temperature, Air Long term	180°F
Heat deflection temperature ASTM D-648 @264 psi	210°F
Melting point ASTM D-3418; Crystalline, Peak	327°F

Mechanical Properties

Tensile strength ASTM D-638	4,800 psi
Elongation at break ASTM D-638	14%
Tensile modulus ASTM D-638	190 ksi
Flexural strength ASTM D-790	4,800 psi
Flexural modulus ASTM D-790	195 ksi
Compressive strength ASTM D-695 @10% Def.	5,000 psi
Compressive modulus ASTM D-695	200 ksi
Izod impact strength, Notched ASTM D-256 Type A	1.20 ft.-lb./in.
Hardness ASTM D-2240	78 Shore D

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