

PP Copolymer

Polypropylene (PP) Copolymer is a common thermoplastic often used for its versatility. It is easy to fabricate, will not crack with vibration or wear, and can also be used in applications that require chemical resistance and/or FDA compliance.

Applications

Typical applications consist of die cutting pads, chemical storage tanks, ventilation and duct systems, pump parts, plating and anodizing process equipment, fabricated parts/living hinge parts, and orthotic and prosthetic devices.

Key Product Benefits

- Cost Effective
- Impact Resistance
- Chemical and Corrosion Resistant
- Resistant to Cracking at Low Temperatures
- Meets Food Handling Guidelines
- More Pliable Than Homopolymer

Properties

Property	Test Method	Value
Density	ASTM D792	0.90-0.91 g/cm ³
Water Absorption	ASTM D570	<0.10%
Shore Hardness (D Scale)	ASTM D2240	69-73
Tensile Strength @ Yield	ASTM D638	3,500-4,000 psi
Elongation @ Yield	ASTM D638	11%
Flexural Modulus	ASTM D790	150,000-155,000 psi
Coefficient of Linear Thermal Expansion	ASTM D696	4.3-6 × 10 ⁻⁵ in/in/°F
Maximum Service Temperature, Air		180°F
Heat Deflection Temperature @ 66 psi	ASTM D648	172-173°F
Surface Resistivity	ASTM D257	>10 ¹⁴ ohm/cm