Polypropylene Copolymer

Versatility is the word that best describes Polypropylene Copolymer. Perfect for fire truck tanks because it is inexpensive, easy to fabricate and won't crack from road vibration, Polypropylene Copolymer also works well in orthotic devices that require a lower degree of rigidity. It can also be used in a variety of applications requiring chemical resistance and/or FDA compliance.

- High impact resistance strength
- Meets food handling guidelines
- Better resistance to cracking at low temperatures
- No moisture absorption
- More pliable than homopolymer
- Chemical- and corrosion resistant

Applications:

Die cutting pads
Fire truck water and foam tanks
Plating and anodizing process equipment
Fabricated parts/living hinge parts
Orthotic and prosthetic devices
Tanks - secondary containment

Property	Test Method	Units	Polypropylene Copolymer
Physical			
Density	ASTM D-792	lbs/ft^3	55.08
Water Absorption	ASTM D-570	%	0.01
Mechanical			
Yield Point	ASTM D-638	psi	3466
Elongation at Yield	ASTM D-638	%	11
Tensile Break	ASTM D-638	psi	4,814
Elongation at Break	ASTM D-638	%	649
Tensile Modulus	ASTM D-638	psi	152,192
Flexural Modulus	ASTM D-790	psi	183,860
Flexural Strength	ASTM D-790	psi	3,741
Izod Impact	ASTM D-4020	ft-lb/in	7.8
Tensile Impact	DIN 53448	$ft\text{-}lbs/in^2$	384
Hardness	ASTM D-2240	Shore D	73
Thermal			
Heat Deflection Temperature @ 66psi	ASTM D-648	°F	173
Maximum Long Term Operating Temp.	UL746B	°F	180
Coefficient of linear thermal expansion	ASTM D696	in/in/°F	4.3×10^{-5}
Electrical			
Volume Resistivity	ASTM D-257	ohm-cm	$>10^{15}$
Surface Resistivity	ASTM D-257	ohm	$>10^{15}$

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. All values at 73°F (23°C) unless otherwise noted.

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