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PRIMEX

Prime PO 500

Our Prime PO 500 is a Polyolefin that has many of the physical properties of a Copolymer Polypropylene.

Features high extruded melt strength, good cold impact resistance, stiffness, and impact balance.

Customization

Prime PO 500 melt index, density, flex modulus, heat deflection, and izod are typical of polypropylene. Standard grades of polypropylene have a very small processing window with very little hot strength. This product was designed for thermoforming and has better hot melt strength than typical polypropylene.

Prime PO 500 can be color matched to meet your specific requirements through our vertical integration with Primex Color, Compounding & Additives.

Sustainability

Sustainability includes considering the product's circularity or end of life during the design of the finished product. Prime PO 500 is a polypropylene (recycle code 5) that can be recycled as a post-industrial or post-consumer product. Contact your Primex Territory Business Manager or check with local recycling facilities to determine where it is collected and recycled.

Primex Sustainability: A better tomorrow, starting today!

Prime PO 500 | Data Sheet

Prime PO 500 thermoforms like HDPE. The mold shrink may be slightly higher than Polypropylene.

Property	Method	Value	Unit
Specific Gravity	D1505	.92	
Melt Flow	D1238	.350	g/10 min
Tensile @ Yield	D638	3,700	psi
Flexural Modulus	D790	180,000	psi
Mold Shrink	D955	.026	in/in
HDT @ 66 psi	D648	159	°F
CLTE	D696	$7.7x10^{-5}$	in/in/°F
Notched Izod @ 73°F	D256	No Break	

Applications

Prime PO 500 was designed for any thermoformed product that requires a Polypropylene material. It is ideal for roll fed forming as well as large cut sheet forming.

Finishing

Prime PO 500 may be cut or trimmed by sawing, routing, drilling, die cutting, or punching. It may be fabricated to other Prime PO 500 parts by sonic welding.

Colors, Textures, and Capabilities

Prime PO 500 textures included; Smooth/ Smooth, Gloss/Dull, Levant I & II, HC, and Calf Grain. A range of thicknesses from .013 to .400 are available with widths up to 120".

Prime PO 500	Very High	High	Avg.
Impact Strength		*	
Low Temperature Impact Strength	*		
Tensile Strength		*	
Flexural Modulus			*
Heat Deflection Temperature			*

PRIMEX
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