



Prime PO 500 is a Polyolefin that has many of the physical properties of a Copolymer Polypropylene. The 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. Some resin manufacturers offer a high hot strength PP, however, it carries a premium.

PRIME PO 500

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

Property	Test Method	Value	Unit
Melt Flow	D1239	.350	g/10min
Specific Gravity	D1505	.92	
Tensile @ Break	D638	275	%
Flexural Modulus	D790	180,000	psi
HDT @ 66 psi	D648	159	°F
HDT @ 66 psi, Annealed	D648	197	°F
Notched Izod @ 73°F	D256	No Break	
Notched Izod @ -40°F	D256	No Break	
CLTE	D696	7.7x10 ⁻⁶	in/in/°F
Mold Shrink	D955	.012 -.018	in/in

Applications:

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:

The same type of finishing techniques used on Polypropylene may be used on our PO 500 product. It may be cut or trimmed by sawing, routing, drilling, die cutting or punching. It may be fabricated to other PO 500 parts by sonic welding.

Processing:

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

Colors, Textures and Capabilities:

PO 500 can be color matched to your specific requirements. The same textures are available for PO 500 as for any Polypropylene. A range of thicknesses from .013 to .400 are available with widths up to 120".