

Prime PP PO 500

Polypropylene Copolymer

Primex Plastics Corporation

Message:

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.

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.

Processing:

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

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.

Please contact your Primex Plastics representative for more information on finishing, fabricating, or the thermoforming process.

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".

General Information			
Features	Copolymer		
	High Impact Resistance		
	High Tensile Strength		
	Ultrasonic Weldable		
Appearance	Colors Available		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.2 to 1.8	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Elongation (Break)	280	%	ASTM D638
Flexural Modulus	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	70.6	°C	

0.45 MPa, Annealed	91.7	°C	
CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696

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