Prime PP COPP 792

Polypropylene Copolymer

Primex Plastics Corporation

Message:

This product is a fractional melt PP that is designed for extrusion applications with features of high extrudate melt strength, good cold impact resistance, stiffness and and impact balance. It also offers better optical properties, increased flexibility, and the same chemical resistance as Homopolymer PP.
Applications:
Prime COPP 792 is ideal for home, medical and food ware.
Processing:
Prime COPP 792 can be solid phase or melt phase formed. The melt phase forming process is preferred, with a forming temperature of 350°F. The mold temperature should be 50-90°F for roll fed machines and 90-150°F for cut sheet machines. The mold shrink is about .015 - .018 in/in. Parts should be de-molded <190°F.
Finishing:
Thinner sheet <.040 is easily trimmed with 1- 2 minutes of cooling time. Thinner sheet can be trimmed with a steel rule die. Thicker sheet will require several minutes of cooling time and should be trimmed with a shearing die. Tool and die clearance should be <.005 in. For printing or painting corona or flame surface treating is required.
Please contact your Primex Plastics representative for more information on finishing, fabricating, or the thermoforming process.
Colors, Textures and Capabilities:
Prime CO PP 792 can be color matched to meet your specific requirements. Textures included; Smooth/Smooth, Gloss/Dull, Levant I & II, HC, and Calf Grain. Thicknesses range from .010 - .500 and widths up to 96".

General Information			
Features	Copolymer Good Chemical Resistance Good Melt Strength Good Stiffness High Heat Resistance High Tensile Strength Low Temperature Impact Resistance Opticals Ultra High Impact Resistance		
Uses	Household Goods Medical/Healthcare Applications Non-specific Food Applications		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Colors Available		
Forms	Sheet		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.898	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**

Rockwell Hardness (R-Scale)	75		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.6	MPa	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Flexural Modulus	1340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (22°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	87.8	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating [1] (0.864 mm)	HB		UL 94
Additional Information	Nominal Value	Unit	
De-mold Temperature	< 88	°C	
Forming Temperature	177	°C	
Mold Temperature (other)			
Cut sheet	32 to 66	°C	
Roll fed	10 to 32	°C	
NOTE			
1.	> 0.034 in		

Recommended distributors for this material

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WECHAT