Prime PETG 14471

Unspecified

Primex Plastics Corporation

Message:

Is an economical high-clarity PETG co-polyester resin developed for thick sheet applications. The benefits of this material are excellent clarity, outstanding toughness, chemical resistance, cold formable without stress whitening, machinable, excellent thermoforming characteristics and it can be sealed with adhesives.
Applications:
Include point of purchase, displays, store fixtures, indoor and outdoor signs, vending machine parts, and industrial, building, construction, and architectural components.
Processing:
Forming conditions for Prime PETG 14471 are as follows; Oven temperatures should be 400-500°F, forming temperature of sheet should be 300-330°F, mold temperature should be <120°F, de-mold the part at < 130°F. The mold should have a 3-5° draft angle to aid with the release of the part.
Finishing:
Techniques used for the fabricating and finishing of Prime PETG 14471 include; Cold and Hot bending, sawing, drilling, punching, shearing, and die cutting. Saw edges can be mechanically, flame or solvent polished. Prime PETG 14471 can be painted, hot stamped and is easy to bond with commercial products.
Please contact your Primex Plastics representative for more information on finishing, fabricating, or the thermoforming process.
Colors, Textures and Capabilities:
Prime PETG 14471 can be color matched to meet your specific requirements, however, it is generally a clear product. It is available in thicknesses of .060 - .236 and up to 56" in width.

General Information			
Features	Bondability		
	Good Adhesion		
	Good Chemical Resistance		
	Good Toughness		
	High Clarity		
	High Tensile Strength		
	Machinable		
	Paintable		
	Stress Whitening Resistant		
Uses	Building Materials		
	Construction Applications		
	Decorative Displays		
	Machine/Mechanical Parts		
Agency Ratings	FDA 21 CFR 177.1315		
Appearance	Colors Available		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.27	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**

Rockwell Hardness (R-Scale)	104		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	53.1	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	2140	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-30°C	37	J/m	
23°C	91	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	69.4	°C	ASTM D648
Vicat Softening Temperature	82.8	°C	ASTM D1525
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
0.254 mm [1]	HB		
3.00 mm [2]	V-2		
Optical	**Nominal Value**	**Unit**	**Test Method**
Haze	< 1.0	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	
De-mold Temperature	< 54	°C	
Forming Temperature	149 to 166	°C	
Mold Temperature (other)	< 49	°C	
Oven Temperature	204 to 260	°C	
NOTE			
1.	>0.01 in		
2.	>0.118 in		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


WECHAT