Propylux® Unfilled

Polypropylene

Westlake Plastics Company

Message:

Propylux is made from polypropylene resin. Among its most notable characteristics are its mechanical toughness, chemical resistance, and resistance to abrasion. These properties make it suitable for various applications. Propylux Natural, and Void Free are FDA compliant.
Applications Include:
Tanks/tank covers
Welding cabinetry
Etching rinse tubs
Glove boxes
Cutting board
Fan shrouds and blades
Advantages of Propylux:
Excellent chemical resistance
Superior dimensional stability
Low moisture absorption
Low density
Formable and weldable
FDA, USDA

General Information	
Features	Food Contact Acceptable
	Good Abrasion Resistance
	Good Chemical Resistance
	Good Dimensional Stability
	Good Toughness
	Low Density
	Low Moisture Absorption
	Weldable
Uses	Tanks
Agency Ratings	FDA Unspecified Rating
	USDA Unspecified Approval
Appearance	Black
	Colors Available
	Natural Color
	Translucent
	White
Forms	Film
	Rod
	Sheet

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.908	g/cm³	ASTM D792
Water Absorption (24 hr)	< 0.10	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	95		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1650	MPa	ASTM D638
Tensile Strength (Yield)	35.9	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Flexural Modulus	827	MPa	ASTM D790
Flexural Strength	48.3	MPa	ASTM D790
Compressive Strength	41.4	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	37	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	98.9	°C	
1.8 MPa, Unannealed	54.4	°C	
Continuous Use Temperature	82.2	°C	
Melting Temperature	166	°C	ASTM D4591
CLTE - Flow	1.5E-4	cm/cm/°C	ASTM D696
Thermal Conductivity	0.40	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength	24	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.30		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94

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

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