

**Product Data Sheet**

**Grade** PSU1700

7/24/2003

General purpose polysulfone with excellent clarity

**Properties**

<b>PHYSICAL</b>	<b>Test Method</b>	<b>Typical Values, Units</b>
Specific Gravity	ASTM D792	1.14 g/cm <sup>3</sup>
Melt Flow Rate	N/A	N/R g/10 min
Mold Shrinkage Linear Flow (0.125)	ASTM D955	0.15 to 0.20 in/in
Water Absorption @ 24 hrs	ASTM D570	1.3 %
<b>IMPACT</b>	<b>Test Method</b>	<b>Typical Values, Units</b>
Izod Impact Strength Notched (73 F)	ASTM D256	1.0 ft-lb/in
<b>MECHANICAL</b>	<b>Test Method</b>	<b>Typical Values, Units</b>
Tensile Strength @ Yield**	ASTM D638	12000 psi
Tensile Strength @ Break**	N/A	N/R psi
Elongation @ Yield*	ASTM D638	10 %
Elongation @ Break*	ASTM D638	70 %
Flexural Strength***	ASTM D790	13000 psi
Flexural Modulus***	ASTM D790	440000 psi
<b>HARDNESS</b>	<b>Test Method</b>	<b>Typical Values, Units</b>
Hardness (R-scale)	ASTM D785	110
<b>THERMAL</b>	<b>Test Method</b>	<b>Typical Values, Units</b>
DTUL @ 264 psi Unannealed (.250)	ASTM D648	180 °F
<b>IGNITION CHARACTERISTICS</b>	<b>Test Method</b>	<b>Typical Values, Units</b>
UL File Number Flame Rating - UL		

\* % elongation values are calculated from the elongation of the entire bar at 2.0 in/min

\*\* Tensile strength values are calculated at 2.0 in/min

\*\*\* Flexural data is calculated at 2.0 in/min

The values shown are typical values that have been obtained using test bars molded from laboratory samples and are not intended for specification purposes. These values are for natural colors only. Addition of pigments may alter some values. Inasmuch as LTL Color Compounders has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own test to determine the material's suitability for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any LTL Color Compounders patent covering such use or as recommendations for use of such materials in the infringement of any patent. These are developmental products with estimated physical property profiles. Actual values will need to be determined upon production of material.