

**PETG (Co-Polyester) Data Sheet**

PROPERTY ^a	TEST METHOD	TYPICAL VALUE ^b
PHYSICAL		
Specific Gravity	ASTM D792	1.27
Hardness (Rockwell)	ASTM D785	115 R Scale
Water Absorption (24hr. @ 73F)	ASTM D570	0.2 %
Chemical Resistance	ANSI Z26.1	fair (slight crazing)
w/ TSP DURAVUE [®]		pass
Abrasion Resistance (taber, 100 cycles)	ASTM D1044-1003	>10 % haze
w/ TSP DURAVUE [®]		<1.0 % haze
OPTICAL		
Refractive Index	ASTM D542A	1.57
Light Transmission	ASTM D1003	86 %
Haze	ASTM D1003	1.0 %
MECHANICAL		
Tensile Strength	ASTM D638	7,700 psi
Tensile Elongation	ASTM D638	na %
Tensile Modulus	ASTM D638	320,000 psi
Flexural Strength	ASTM D790	11,200 psi
Flexural Modulus	ASTM D790	310,000 psi
Compression Strength	ASTM D695	8,000 psi
Impact Strength (Notched Izod)	ASTM D256	1.7 ft.lbs/in
THERMAL		
Coefficient of Thermal Expansion	ASTM D696	3.8 x 10 ⁻⁵ in/in/°F
Coefficient of Thermal Conductivity	ASTM C177	na
Deflection Temperature (264 psi)	ASTM D648	157 °F
Flammability (>0.080")	UL94	HB
ELECTRICAL		
Dielectric Strength	ASTM D149	410 V/mil
Dielectric Constant (1 KHz)	ASTM D150	2.6

NOTES: a Typical values; should not be used for specification purposes

b Values are for nominal 0.250" (6mm) thickness. Some values will change with thickness or pigmentation