

# ACT GPA Product Data



PROPERTY	TYPICAL VALUES	UNITS	TEST METHOD
<b>General:</b>			
Thickness	0.125 (3.17)	Inch (mm)	—
Specific Gravity	1.19	—	ASTMD-792
<b>Optical (Unaged):</b>			
Refractive Index	1.49	—	ASTMD-542
Light Transmission	93.0	%	ASTMD-1003
Haze	0.8	%	ASTMD-1003
Ultraviolet Light Transmission (250-370 nanometers)	<1.0	%	UV Spectrophotometer
<b>Optical (Aged):</b>			
Light Transmission	93.0	%	ASTMD-1003
Haze	<2.0	%	ASTMD-1003
Yellowness Index	+0.50	YI	ASTMD-1925
<b>Mechanical:</b>			
Tensile Strength	10,000 (68.9)	psi (MPa)	ASTMD-638
Tensile Modulus	460,000 (3,171)	psi (MPa)	ASTMD-638
Tensile Elongation	5.0	%	ASTMD-638
Flexural Strength	16,000 (110)	psi (MPa)	ASTMD-790
Flexural Modulus	450,000 (3,102)	psi (MPa)	ASTMD-790
Notched Izod Impact	0.4 (2.1)	ft.-lb/in. of notch (kJ/m <sup>2</sup> )	ASTM D-256 (Method A)
Charpy Impact (Un-notched)	5.7 (29.9)	ft.-lb/in. (kJ/m <sup>2</sup> )	ASTMD-6110
Falling Dart Impact	4.0 (5.4)	ft.-lbs. (J)	FTMS 406-M-1074
Rockwell Hardness (M)	90-100	—	ASTMD-785
Barcol Hardness	48-52	—	ASTMD-2583
<b>Thermal:</b>			
Hot Forming Temperature	320-380 (160-193)	°F (°C)	Aristech Method
DTUL @264 psi (1.82 MPa)	190 (88)	°F (°C)	ASTMD-648
Thermal Conductivity	1.4 (20.2)	Btu/(h·ft <sup>2</sup> ·°F/in) (W/(m <sup>2</sup> ·K/cm))	Cinco-Fitch
Specific Heat	0.35 (1465)	Btu/(lb·°F) (J/(kg·K))	ASTM C-351
Coefficient of Linear Thermal Expansion	.000041 (.000074)	in./in./°F (cm/cm/°C)	ASTMD-696



Service. It's what we deliver.

1.800.231.4175 www.acplasticsinc.com

# ACT GPA Product Data



PROPERTY	TYPICAL VALUES	UNITS	TEST METHOD
<b>Thermal: (continued)</b>			
Thermal Stability 30 min.@ 356°F (180°C)	No degradation	—	ASTMD-4802
Flammability	94 HB	—	UL Test # 94
<b>Miscellaneous:</b>			
Water Absorption	0.35	%	ASTMD-570
Odor	None	—	—
Taste	None	—	—