



# Accura<sup>®</sup> 48HTR

## Specialty Class

Plastic material for applications that require high-heat resistance

### Post-Cured Material

MEASUREMENT	CONDITION	METRIC	U.S.
Tensile Strength (MPa/PSI)	ASTM D 638	64-67	9280-9720
Tensile Modulus (MPa/KSI)	ASTM D 638	2800-3980	406-577
Elongation at Break (%)	ASTM D 638	4-7	4-7
Flexural Strength (MPa/PSI)	ASTM D 790	105-118	15200-17100
Flexural Modulus (MPa/KSI)	ASTM D 790	2760-3400	400-493
Impact Strength (J/m /Ft-lbs/in)	ASTM D 256	22-29	0.4-0.5
Heat Deflection Temperature	ASTM D 648		
UV Postcure Only	@ 66 PSI	65	149
UV Postcure Only	@ 264 PSI	57	135
UV + thermal postcure (2hr @ 160 °C)	@ 66 PSI	130	266
UV + thermal postcure (2hr @ 160 °C)	@ 264 PSI	110	230
Coefficient of Thermal Expansion (µm/m-°C / µm/in-°F)	ASTM E 831-93 TMA (T<T <sub>g</sub> , < 50 °C) TMA (T<T <sub>g</sub> , 9 > 120 °C)	115 165	64 92
Glass Transition (T <sub>g</sub> )	ASTM D 4065-01		
UV Postcure Only	DMA, E''	91-100	195-212
UV + thermal postcure (2hr @ 160 °C)	DMA, E''	132-136	270-277
Hardness, Shore D	ASTM D 2240	86	86

### Features

- High-heat resistance
- Transparent assemblies allow for visualization of internal structures
- Rigid and stiff

### Liquid Material

MEASUREMENT	CONDITION	VALUE
Viscosity	@ 30 °C (86 °F)	200 cps
Penetration Depth (Dp)		5.5 mils
Critical Exposure (Ec)		7.4 mj/cm <sup>2</sup>
Color		Clear Amber
Solid Density	@ 25 °C (77 °F)	1.23 g/cm <sup>3</sup> at 25 °C
Liquid Density	@ 25 °C (77 °F)	1.17 g/cm <sup>3</sup> at 25 °C



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