



Accura[®] 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<Tg, < 50 °C) TMA (T<Tg, 9 > 120 °C)	115 165	64 92
Glass Transition (Tg)	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 ²
Color		Clear Amber
Solid Density	@ 25 °C (77 °F)	1.23 g/cm ³ at 25 °C
Liquid Density	@ 25 °C (77 °F)	1.17 g/cm ³ at 25 °C



www.3dsystems.com

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

© 2020 by 3D Systems, Inc. All rights reserved. Specifications subject to change without notice. 3D Systems the 3D Systems logo, Accura are registered trademarks of 3D Systems, Inc.