



Accura[®] Phoenix

A thermally resistant plastic that provides high clarity parts for the ProX[®] 800.

Post-Cured Material

MEASUREMENT	CONDITION	METRIC (PCA ONLY)	METRIC (THERMAL PC*)	U.S. (PCA ONLY)	U.S. (THERMAL PC*)
Tensile strength (MPa PSI)	D638	45-61	52-77	6530-8850	7540-11170
Tensile modulus (MPa KSI)	D638	2340-2640	2620-2940	339-383	380-426
Elongation at break (%)	D638	3-5 %	2-6 %	3-5 %	2-6 %
Flexural strength (MPa PSI)	D790	96-100	123-139	13920-14500	17840-20160
Flexural modulus (MPa KSI)	D790	2140-2330	2290-2410	310-338	332-350
Izod impact notched, (J/m ft-lbs/in)	D256	13-19	18-23	0.2-0.4	0.3-0.4
Heat deflection temperature	D648 @ 66 PSI @ 264 PSI	83 °C	137 °C	181 °F	279 °F
		64 °C	103 °C	147 °F	217 °F
Coefficient of Thermal Expansion (ppm/K ppm/°F)	20-50 °C	41.3	56.7	22.9	31.5
	60-90 °C	96.6	-	53.7	-
	80-120 °C	-	65.7	-	36.5
Glass Transition (Tg)	DMA, E''	63 °C	NA	145 °F	NA
Hardness, Shore D	D2240	80	80	80	80

* 2 hours at 80° C

Liquid Material

MEASUREMENT	CONDITION	VALUE
Viscosity	@ 30 °C (86 °F)	120-130 cps
Penetration depth (Dp)		6.4 mils
Critical exposure (Ec)		11.7 mJ/cm ²
Color		Clear/Transparent
Liquid density	@ 25 °C (77 °F)	1.13 g/cm ³

Features

- High thermal resistance enhances automotive and other demanding applications
- Exceptional clarity improves
 - Viewing of hot fluid flow in complex automotive parts
 - Viewing of internal structures in assembly work
- Moderate stiffness and rigidity improves assembly operations
- Formulated without addition of antimony



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.

© 2017 by 3D Systems, Inc. All rights reserved. Specifications subject to change without notice. 3D Systems, Accura and ProX are registered trademarks and the 3D Systems logo is a trademark of 3D Systems, Inc.