Accura® 55

Rigid and strong plastic to simulate and replace CNC-machined white ABS articles

Post-Cured Material

MEASUREMENT	CONDITION	METRIC	U.S.
Tensile Strength (MPa/PSI)	ASTM D 638	63-68	9200-9850
Tensile Modulus (MPa/KSI)	ASTM D 638	3200-3380	460-490
Elongation at Break (%)	ASTM D 638	5-8 %	5-8 %
Flexural Strength (MPa/PSI)	ASTM D 790	88-110	12830-15920
Flexural Modulus(MPa/KSI)	ASTM D 790	2690-3240	390-470
Impact Strength (J/m /Ft-lbs/in)	ASTM D 256 ASTM5420	12-22 1.1	0.2-0.4 0.81
Heat Deflection Temperature	ASTM D 648 @ 66 PSI @ 264 PSI	 55-58 °C 51-53 °C	 131-136 °F 123-127 °F
Coefficient of Thermal Expansion (CTE)	ASTM E 831-93 TMA (T<Tg, 0-40 °C) TMA (T<Tg, 75-140 °C)	 61 163	 141 326
Glass Transition (Tg)	DMA, E″	56 °C	132 °F
Shore D		85	85

Features

- Rigid and strong
- Functional assemblies
- Short-run production parts

Liquid Material

MEASUREMENT	CONDITION	VALUE
Viscosity	@ 30 °C (86 °F)	170 cps
Penetration Depth (Dp)		5.2 mils
Critical Exposure (Ec)		7.4 mJ/cm^2
Color		White
Solid Density	@ 25 °C (77 °F)	1.20 g/cm^3 at 25 °C
Liquid Density	@ 25 °C (77 °F)	1.13 g/cm^3 at 25 °C

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