

# Accura<sup>®</sup> PP White (SL 7811)

PP Class

Flexible and tough plastic to simulate and replace CNC-machined white polypropylene articles

## Post-Cured Material

MEASUREMENT	CONDITION	METRIC	U.S.
Tensile Strength (MPa/PSI)	ASTM D 638	40-42	5800-6090
Tensile Modulus (MPa/KSI)	ASTM D 638	2030-2230	294-323
Elongation at Break (%)	ASTM D 638	7-13 %	7-13 %
Flexural Strength (MPa/PSI)	ASTM D 790	64-66	9280-9570
Flexural Modulus (MPa/KSI)	ASTM D 790	1960-2060	284-299
Impact Strength (J/m /Ft-lbs/in)	ASTM D 256	42-59	0.78-1.10
Heat Deflection Temperature	ASTM D 648 @ 66 PSI	47 °C	117 °F
Coefficient of Thermal Expansion ( $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ / $\mu\text{m}/\text{in}\cdot^{\circ}\text{F}$ )	ASTM E 831-93 25-50 °C 50-100 °C	92 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ 207 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	51 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ 115 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$
Glass Transition (T <sub>g</sub> )	DMA, E''	56 °C	133 °F
Hardness, Shore D		86	86

## Liquid Material

MEASUREMENT	CONDITION	VALUE
Viscosity	@ 30 °C (86 °F)	210 cps
Penetration Depth (Dp)		5.25 mils
Critical Exposure (Ec)		10.97 mJ/cm <sup>2</sup>
Color		White
Solid Density	@ 25 °C (77 °F)	1.15 g/cm <sup>3</sup> at 25 °C
Liquid Density	@ 25 °C (82 °F)	1.11 g/cm <sup>3</sup> at 25 °C

## Features

- Flexible and tough
- Snap fit assemblies
- Master patterns for vacuum casting
- Durable functional prototypes



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