PRODUCT BULLETIN

TCC-8040
PRONTO PARTS®
HIGH TEMPERATURE 80D
URETHANE CASTING SYSTEM
FOR PROTOTYPES

www.CASSpolymers.com 800.344.7776 TCC@CASSpolymers.com
31200 Stephenson Hwy Madison Heights MI 48071 Ph 248.588.2270 Fax 248.588.5909

DESCRIPTION

Pronto Parts® TCC-8040 is a high temperature, high impact resistant urethane system for casting parts or prototypes which have properties that closely simulate polypropylene and ABS thermoplastics. This 80 Shore D casting system must be post cured to reach usable properties. Because of its low viscosity and short working life this system is suited for use with automated dispensing equipment.

HANDLING CHARACTERISTICS @ 25°C/77°F

Mix Ratio (parts by volume)		1A:1B
(parts by weight)		100A/95B
Mixed Density		1.13 grams/cc
		9.5 lbs/gal
Mixed Viscosity		820 cps
Work Life (100 gram mass)		16 minutes
(250 gram mass)		10 minutes
Color	TCC-8040A	Natural
Color	TCC-8040B	Black
Mixed Color		Black
Demold Time		1 hour @ room temperature
		+1 hour @ 70°C/158°F
Complete Cure Schedule		1 hour @ 70°C/158°F
		+ 1 hour @ 100°C/212°F
		+ 2 hours @ 110°C/230°F

TYPICAL PHYSICAL PROPERTIES
(Cast Bar tested following demold and complete cure schedule above)

Flexural Strength	10,990 psi
Flexural Modulus	218,400 psi
Tensile Strength	8,402 psi
Tensile Elongation	8.38%
Impact Strength	12.1 in-lbf/in
Heat Deflection Temperature @ 66 psi	133.9°C/273°F
Hardness	80 Shore D
Linear Shrinkage @ 0.125” Thickness	0.0080 in/in
Linear Shrinkage @ 0.500” Thickness	0.0094 in/in

TCC-8040 Tech / New 4/30/07
Supercedes EO8-092 4/25/07

Seller cannot anticipate all conditions under which seller’s products, or the products of other manufacturers in combination with seller’s products, may be used. Seller accepts no responsibility for results obtained by the application of seller’s products or the safety and suitability of seller’s products, either alone or in combination with other products. Users are advised to make their own test to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, seller delivers the products without warranty of any nature, stated or implied, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of said products, whether used alone or in combination with other products. Purchaser waives any claim against seller for direct, indirect, consequential or exemplary damages against seller, including without limitation, damage which may incur as a result of purchaser’s use or misuse of the product or the products failure to conform to any particular specifications.