



GTP UltraKast 600

Description

Ultrakast 600 is a low viscosity, two-component liquid castable polyurethane elastomer that contains no TDI or MOCA. The material has a low mixed viscosity and after twenty minutes is less than 4,000 centipoises. Ultrakast 600 is insensitive to typical environmental moisture and exhibits low shrinkage. Ultrakast 600 provides the strength and durability of a heat-cured urethane in a simple to use RTV system. It provides you with the ability to cast high strength, flexible urethane parts in urethane or silicone molds. Ultrakast 600 can be colored with our RV series pigments. We recommend using black or darker colors to prevent color change or applying a UV resistant coating. This product is reddish/brown in color. Some uses for Ultrakast 600 include core box liners, metal forming pads, industrial parts and abrasion resistant pads and bumpers.

Applications

Service temperature range is -50° F to 200° F.

Typical Properties

	Viscosity	Specific Gravity	Weight Per Gallon
Component A	7000 cps	1.03	8.59 lb.
Component B	100 cps	0.99	8.29 lb.
Mixed	2000 cps	1.02	8.51 lb.
Mixing Ratio	By volume		100 parts A to 38.8 parts B
	By weight		100 parts A to 40 parts B
Work life		27 minutes @ 77° F	
Demold time		16 – 24 hours @ 77° F, 2 – 4 hours @ 150°F	
Complete cure		7 days @ 77° F	

Set time and Demold depend on temperature and relative humidity.

Physical Properties

	Test Method	Value
Hardness	ASTM 2240	35 Shore D
Tensile strength	D-412-68	3,900 psi
Elongation	D-412-68	450 %
Tensile modulus	D-417-68	2,150 psi
Tear strength	D-624 die C	600 ppi
Shrinkage (inch)	D-2566	0.0015
Density (A) g/cm3 (lb./gal.)	ASTM D-792-66	8.70 (1.044)
Density (B) g/cm3 (lb./gal.)	ASTM D-792-66	8.50 (1.02)

Color

Clear

Shelf Life

Ultrakast 600 is shipped from the factory in sealed containers. The containers should be stored in a cool dry area that is protected from direct sunlight and moisture. Storage temperatures should not exceed 80° F. The shelf life of factory sealed containers stored under these conditions is six months. Containers that have been opened should be resealed immediately after material has been removed in order to prevent solvent evaporation.

Packaging

Ultrakast 600 is available in convenient 2-quart, 1-gallon, 5-gallon, 40-gallon and 79-gallon kits. Ultrakast 600 has a non-hazardous rating for shipping.