

Description

GTP Elastomer 40 is a versatile, two component liquid castable polyurethane elastomer. GTP Elastomer 40 combines high strength and elongation with excellent chemical resistance to create durable flexible molds or parts. GTP Elastomer 40 is insensitive to typical moisture, has low viscosity, high strength and low durometer. It also has low residual surface tack. Some features of GTP Elastomer 40 include, good grease and oil resistance, good flow into fine detail, and easy 1 to 1 mix ratio by weight, good dimensional stability, and good adhesion between pours. It is tough, with high tear strength and insensitive to inhibition.

Application

A rubber mold is constructed by pouring GTP Elastomer 40 around an existing piece of art, a clay master or industrial part, which has been coated with molding release agent. Within hours the GTP Elastomer 40 molding material can be removed from the objects surface. The finished mold can be refilled with a variety of casting materials to make hard or flexible parts.

Typical Properties

	Viscosity	Specific Gravity	Weight Per Gallon
Component A	2700 cps	1.09	9.08 lb.
Component B	1200 cps	1.03	8.73 lb.
Mixed	2000 cps	1.07	8.90 lb.

Mixing Ratio	
By volume	96 parts A to 100 parts B
By weight	1 part A to 1 part B

Work life	20 minutes @ 72° F
Cure time	24 hours @ 72° F
Set time and Demold depend on temperature and relative humidity	

Physical Properties

	Test Method	Value
Hardness	ASTM 2240-85	40 Shore A
Tensile strength	ASTM D412	988 psi
Elongation	ASTM D412	555 %
Modulus (100%)	ASTM D412	202 psi
Modulus (200%)	ASTM D412	344 psi
Modulus (300%)	ASTM D412	520 psi
Tear strength	ASTM D624	223 lb./in.
Cubic inch per lb. of product		25.96

Color

Blue

Storage Shelf Life

GTP Elastomer 40 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

GTP Elastomer 40 is available in convenient 2-quart, 2-gallon, 10-gallon, 60-gallon and 100-gallon kits. GTP Elastomer 40 has a non-hazardous rating for shipping.