



Epoxy &
Polyurethane
Manufacturing and
Research

TECHNICAL BULLETIN

EPMAR® EKS-155 Elastomer

Description

EPMAR® EKS-155 black is a two-component, 100% solids, room temperature cure, polyurethane elastomer with excellent adhesion properties to various substrates. Component "A" is a MDI base prepolymer and component "B" is a polyether polyol. This system may be used for making end caps in filter industries.

Typical Properties (Test specimens hand molded and tested after 2 days cure)

Hardness Shore A	50-55 ASTM D-2240
Tensile Strength	1000 psi ASTM D-412
Elongation (%)	500 ASTM D-412
Tear Strength, Die C, PLI	300 ASTM D-624
Shelf Life	6 months at room temperature (65-85°F)
Storage Temperature	65-90°F
Temperature of Components	70-100°F
Mold Temperature	160-170°F

Processing Characteristics (100 grams total mix @90°F)

Working Life	50 seconds on 150 mil thick
Gel Time	1 minute 10 sec.
Demold Time on 170°F Mold	2.5 minutes
Complete Cure Time	After 1 day @ 73 - 90°F

Physical Characteristics

	Component A	Component B
Mix Ratio Of A/B		
By Weight	22.4	77.6
By Volume	28.8	100
Solid Content by Weight	100%	100%
Viscosity, CPS @ 74°F @ 20 rpm	1000	800
Specific Gravity @ 74°F	1.20	1.03
Pounds per Gallon	9.98	8.56
Color	Light Amber Clear	Black



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NOTES:

1. EPMAR® EKS-155, Component A and Component B, should be stored at temperature of 65-85°F. in tightly closed containers. Once a container of Component A or B has been opened, care should be taken to exclude moisture. It is suggested that dry nitrogen purging is necessary for preventing moisture contamination before being resealed.
2. The black pigments in Component B have a tendency to settle to the bottom of the container. This settlement can be brought back by agitation. Therefore, Component B must be mixed at a slow speed prior to use and during processing.

Contact EPMAR for any additional application information.

Warranty

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of this product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product, which is proved to be defective. Any claim of defective product must be received in writing within one (1) year from date of shipment. Neither seller nor manufacturer assumes any liability for injury, loss, or damage resulting from use of this product.

Service is part of our formula

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