

Shin-Etsu Silicones KE-5551U High Strength Silicone Elastomer

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Rubber

Material Notes:

ShinEtsu KE5551 U is a nominal 50 Durometer base which offers high tensile and tear strengths. Its excellent processing characteristics make it suitable for molding, extrusion and calendaring. Product Features: Minimum tear strength 168 ppi. Translucent. Typical Applications: Gaskets. Diaphragms. Hose Stock. Information Provided by Shin-Etsu Silicones of America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Shin-Etsu-Silicones-KE-5551U-High-Strength-Silicone-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	DCBP Cure
	1.17 g/cc	1.17 g/cc	DBPH Cure

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	DCBP Cure
	50	50	DBPH Cure
Tensile Strength at Break	10.7 MPa	1550 psi	DBPH Cure
	11.2 MPa	1620 psi	DCBP Cure
Elongation at Break	890 %	890 %	DCBP Cure
	900 %	900 %	DBPH Cure
Tear Strength	36.3 kN/m	207 pli	Die B; DCBP Cure
	38.2 kN/m	218 pli	Die B; DBPH Cure
Compression Set	46 %	46 %	DCBP Cure
	@Temperature 177 Â°C, Time 79200 sec	@Temperature 351 Â°F, Time 22.0 hour	

Descriptive Properties	Value	Comments
Cure Agent	DBPH	
	DCBP	
Cure Type	Press Cure	

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