

BCC Products BC 8860 Polyurethane Elastomer

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

Material Notes:

BC8860 is a low viscosity two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for use for the production casting of highly wear-resistant parts and linings. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, or MOCA. BC8860 is relatively insensitive to typical environmental moisture and will make good void-free parts without the problems that some conventional urethane systems exhibit. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-BC-8860-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	
Brookfield Viscosity	1400 - 1500 cP @Temperature 23.9 °C	1400 - 1500 cP @Temperature 75.0 °F	1.5 min mixed
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60 - 64	60 - 64	
Tensile Strength, Ultimate	26.2 MPa	3800 psi	ASTM D412
Elongation at Break	400 %	400 %	
Tensile Modulus	0.248 GPa	36.0 ksi	
Flexural Strength	25.5 MPa	3700 psi	ASTM D790
Flexural Modulus	0.538 GPa	78.0 ksi	ASTM D790
Tear Strength	114 kN/m	650 pli	

Processing Properties	Metric	English	Comments
Cure Time	360 - 480 min	6.00 - 8.00 hour	demold time
	4320 - 7200 min @Temperature 24.0 °C	72.0 - 120 hour @Temperature 75.2 °F	full cure
Pot Life	16 - 20 min @Temperature 24.0 °C	16 - 20 min @Temperature 75.2 °F	work life

Descriptive Properties	Value	Comments
Mix Ratio	100:60 by weight and volume (resin/hardener)	

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