

BCC Products BC 8990 Polyurethane Elastomer

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

Material Notes:

BC8990 is a two-component urethane elastomer compound specifically designed for general purpose molding and casting of various shapes. This product is a safe, easy-to-handle, room temperature mixing and curing system that contains no TDI, MDA or MOCA. BC8990 may be used to provide abrasion resistant liners, pads and bumpers. The low shrinkage, low viscosity, superior toughness, and excellent detail reproduction of makes this system ideal for general purpose castings and quality tooling operations. It may also be used in potting and encapsulating applications. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-BC-8990-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Brookfield Viscosity	50 cP	50 cP	Part B; ASTM D2393
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	3600 cP	3600 cP	initial mixed; ASTM D2393
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	6000 cP	6000 cP	Part A; ASTM D2393
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82 - 85	82 - 85	ASTM D2240
Tensile Strength, Ultimate	12.1 MPa	1750 psi	ASTM D412
Elongation at Break	720 %	720 %	ASTM D412
Tensile Modulus	0.00379 GPa	0.550 ksi	1; ASTM D412
Tear Strength	30.7 kN/m	175 pli	ASTM 4-624-54 Die C

Processing Properties	Metric	English	Comments
Cure Time	960 - 1440 min	16.0 - 24.0 hour	demold time
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	4320 - 7200 min	72.0 - 120 hour	full cure
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Pot Life	25 min	25 min	gel time; ASTM D2471

Processing Properties	@Temperature 24.0 °C Metric	@Temperature 75.2 °F English	Comments
Descriptive Properties	Value		Comments
Mix Ratio	4:1 by weight (A/B)		

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