

BCC Resins BC 8870

Polyurethane Thermoset Elastomer

BCC Products Inc.

Message:

BC8870 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. BC8870 is relatively insensitive to typical environmental moisture and will make good void-free parts without the problems that some conventional urethane systems exhibit.

General Information			
Features	Good Abrasion Resistance Good Impact Resistance Good Wear Resistance Low Viscosity		
Uses	Liners		
Appearance	Amber Black		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Specific Volume	0.910	cm ³ /g	
Work Life (24°C)	18.0 to 20.0	min	
Molding Shrinkage - Flow	0.25	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68 to 72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	248	MPa	ASTM D638
Flexural Modulus	538	MPa	ASTM D790
Flexural Strength	25.5	MPa	ASTM D790
Compressive Strength ¹	67.6	MPa	ASTM D695
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	26.2	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Tear Strength	114	kN/m	ASTM D624
Compression Set	72	%	ASTM D395B
Bayshore Resilience	48	%	ASTM D575
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			

Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 60		
Thermoset Mix Viscosity	1800 to 2000	cP	ASTM D2393
Demold Time (24°C)	120 to 180	min	
Post Cure Time			
23°C	72 to 120	hr	
66°C	4.0 to 6.0	hr	

NOTE

1. at failure

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