

BCC Resins BC 8860

Polyurethane Thermoset Elastomer

BCC Products Inc.

Message:

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.

General Information			
Features	Low viscosity		
	Impact resistance, high		
	Good wear resistance		
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Uses	Lining		
Appearance	Black		
	Red		
	Amber		
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)	16.0 - 20.0	min	
Molding Shrinkage - Flow	0.25	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60 - 64		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
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
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Component a	Mixing ratio by weight: 100, mixing ratio by capacity: 100		

Component B	Mixing ratio by weight: 60, mixing ratio by capacity: 60		
Thermoset Mix Viscosity ¹ (24°C)	1400 - 1500	cP	ASTM D2393
Demold Time (23°C)	360 - 480	min	
Post Cure Time			
23°C	72 - 120	hr	
66°C	16	hr	

NOTE

1. Mixed, 1.5 min

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