

BCC Resins BC 8160

Polyurethane

BCC Products Inc.

Message:

BC8160 is a low viscosity two-component urethane casting compound that is specifically formulated for its flexural and impact strength. It is recommended for use for the production casting of highly wear-resistant parts and prototypes. BC8160 can be used to develop thermoplastics type prototypes. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, or MOCA. BC8160 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 Wear Resistance		
	High Impact Resistance		
	Low Viscosity		
Uses	Living Hinges		
	Prototyping		
Appearance	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 to 20.0	min	
Molding Shrinkage - Flow	0.25	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60 to 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			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 60, Mix Ratio by Volume: 60		
Thermoset Mix Viscosity ¹ (24°C)	1400 to 1500	cP	ASTM D2393

Demold Time (23°C)	6.0 to 8.0	min
Post Cure Time		
23°C	72 to 120	hr
66°C	16	hr
NOTE		
1.	Mixed, 1.5 min	

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