

BJB Polyurethane TC-8764 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

TC-8764 A/B is a 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, MDA or MOCA. TC-8764 A/B is relatively insensitive to typical environmental moisture and will make good void-free parts without the problems that some conventional urethane systems exhibit. Because of this products exceptional toughness and abrasion resistance, castings made with TC-8764 A/B are particularly suitable for mining and mineral process industries.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	Good Wear Resistance		
	High Impact Resistance		
Uses	Abrasion Resistant Liners		
	Mining Applications		
Appearance	Amber		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.09	g/cm ³	
--	1.13	g/cm ³	ASTM D792
-- ²	1.14	g/cm ³	
Specific Volume	0.903	cm ³ /g	
Color			
Part A	Pale Yellow		
Part B	Amber		
Gel Time	15.0 to 20.0	min	
Work Time (25°C) ³	10.0 to 15.0	min	
Molding Shrinkage - Flow	0.90	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	58 to 62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	283	MPa	ASTM D638
Tensile Strength	30.3	MPa	ASTM D638
Tensile Elongation (Break)	310	%	ASTM D638
Flexural Modulus	267	MPa	ASTM D790A
Flexural Strength	9.86	MPa	ASTM D790A

Elastomers	Nominal Value	Unit	Test Method
Tear Strength	89.3	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	> 530	J/m	ASTM D256
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: 50, Mix Ratio by Volume: 48		
Shelf Life (24°C)	26	wk	
Thermoset Mix Viscosity			ASTM D2393
25°C ⁴	250	cP	
25°C ⁵	2750	cP	
25°C ⁶	1550	cP	
Demold Time (25°C)	120 to 180	min	
Post Cure Time (25°C)	120 to 170	hr	
NOTE			
1.	Part A		
2.	Part B		
3.	100g mass		
4.	Part B, Brookfield		
5.	Part A, Brookfield		
6.	Mixed, Brookfield		

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