

Product Name

WC-565 A/B

Water Clear Shore 65 A

Polyurethane Elastomer



Product Description

WC-565 A/B is a two-part, water clear, colorless aliphatic based polyurethane elastomer. It is recommended for use whenever a flexible, permanently transparent elastomer is required. It can be easily tinted to clean bright colors and will retain its color provided stable colorants are used. WC-565 A/B does not contain MOCA, TDI or MDA. This product exhibits excellent fuel and oil resistance as well.

Physical Properties

Hardness	Shore A	ASTM D-2240-04e1	65 ± 5
Density	g/cc	ASTM D-792-00	1.02
Tensile Strength	psi	ASTM D-412-98a(2002)e1	753
Tear Strength	pli	ASTM D-624-00e1	59
Shrinkage	in./in. linear	ASTM D-2566 @ 1" depth	0.004
Elongation	%	ASTM D-412-98a(2002)e1	200
Dielectric Constant	1 MHz	ASTM D150-87	3.483
Dissipation Factor	1 MHz	ASTM D150-87	0.061

Handling Properties

Mix Ratio	by weight	Part A	100 pbw
		Part B	100 pbw
Mix Ratio	by volume	Part A	95 pbv
		Part B	100 pbv
Specific Gravity	g/cc	Part A	1.07
		Part B	1.02
Viscosity	cps @ 25°C Brookfield	Part A	4,725
		Part B	310
		Mixed	1,100
Colour		Part A	Colorless
		Part B	Colorless
Work Time	@ 25°C		15 minutes
Gel Time			20 minutes
Demold Time	@ 25°C		6-8 hours, ¼"thick; 4 hours in larger mass

Cure Schedule/Heat Curing

Most of the physical properties can be achieved in 5-7 days at ambient temperature 25°C. In order to achieve maximum physical properties, a post cure with heat is required. BJB recommends 24 hours at ambient temperature, 25°C, followed by 16 hours at 71°C.

Storage

All materials should be kept in tightly closed containers out of contact with moist air. Stored under these conditions at temperatures of 16° - 27°C, the shelf life is 6 months from date of shipment. Part B may turn hazy or partially freeze below 18°C storage. Warming to 27° - 32°C will return product to a clear state.

Notes

The cure will be inhibited if cast against a tin catalyzed silicone RTV.

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Revision Number

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Disclaimer

The data presented in this leaflet are in accordance with the present state of our knowledge, and does not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the product for a particular purpose.

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