



**COMPARISON OF CHOCKFAST EPOXY CHOCKS**  
**TECHNICAL GUIDE #840**

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**VERSION: D**

**DESCRIPTION**

This bulletin compares the key physical properties and associated product information of the 2-component epoxy chocks within the ITW Performance Polymers product offerings.

**PRODUCT INFORMATION**

	CHOCKFAST ORANGE	CHOCKFAST BLACK	CHOCKFAST GRAY
UNIT COVERAGE	SMALL: 120 in <sup>3</sup> (1.96 L) LARGE: 260 in <sup>3</sup> (4.26 L)	265 in <sup>3</sup> (4,343 cm <sup>3</sup> )	SMALL: 187 in <sup>3</sup> (3.06 liters) LARGE: 816 in <sup>3</sup> (13.37 liters)
TYPICAL POUR DEPTH*	½" to 4" (12 to 100-mm)	1-¼" to 2-½" (32 - 62 mm)	½" to 2" (12 mm to 50 mm)
CURE TIME (APPROXIMATE)	55°F-65°F (13°C-18°C):48 hrs 66°F-70°F (19°C-21°C):24 hrs Above 70°F (21°C):18 hrs	60°F (15°C): 48 hours 65°F (18°C): 36 hours 70°F (21°C): 24 hours 80°F (27°C): 18 hours	65°F (18°C): 24 hours 85°F (30°C): 18 hours
APPROXIMATE WORKING TIME AT 70°F (21°C)	30 min	45 mins.	30-40 mins.
PACKAGING PER UNIT	SMALL (A): 0.53 gal (2 L) SMALL (B): 7.9 oz (0.23 L) LARGE (A): 1.05 gal (3.98 L) LARGE (B): 15.5 oz (0.46 L)	(A): 1.2 gal (4.5 L) (B): 11.5 oz (0.34 L)	SMALL (A): 0.76 gal(2.9 L) SMALL (B): 9 oz (0.3 L) LARGE (A): 3.2 gal (12 L) LARGE (B): 40 oz (1.2 L)
UNIT SHIPPING WEIGHT	SMALL: 9 lbs (4 kg) LARGE: 17 lbs. (7.7 kg)	21 lbs. (9.5 kg)	SMALL 58 lbs (26.3 kg) /case, 4 kits/case LARGE 57 lbs. (25.9 kg)
SHELF LIFE	2 yrs. in dry storage	2 yrs. in dry storage	2 yrs. in dry storage

\* Individual pours may be performed outside of these limits with recommendations by highly experienced installers. Please consult your local representative of the Chockfast Worldwide distributor network or the ITW Technical Services team for an in-depth application review and recommendations.

#### PHYSICAL PROPERTIES

	CHOCKFAST ORANGE	CHOCKFAST BLACK	CHOCKFAST GRAY
TECHNICAL DATA SHEET	617	618	1612
COMPRESSIVE STRENGTH ASTM D695 MOD*	19,000 psi (131 MPa)	17,300 psi (119.3 MPa)	16,000 psi (110.3 MPa)
COMPRESSIVE MODULUS OF ELASTICITY ASTM D695 MOD*	533,000 psi (3674,91 MPa)	800,000 psi (5515.8 MPa)	520,000 psi (3585.3 MPa)
LINEAR SHRINKAGE ASTM D2566	0.0002 in/in (0.0002 mm/mm)	0.00018 in/in (0.00018 mm/mm)	0.0003 in/in (0.0003 mm/mm)
COEFFICIENT OF LINEAR THERMAL EXPANSION ASTM D696	17.1 x 10 <sup>-6</sup> /F° @ 32°F to 140°F (30.8 x 10 <sup>-6</sup> /C° @ 0°C to 60°C)	15.0 X 10 <sup>-6</sup> /F° @ 32°F to 140°F (27.0 x 10 <sup>-6</sup> /C° @ 0°C to 60°C)	16.8 x 10 <sup>-6</sup> /F° @ 32°F to 140°F (30.3 x 10 <sup>-6</sup> /C° @ 0°C to 60°C)
TENSILE STRENGTH ASTM D638	4,970 psi (34.27 MPa)	2,900 psi (20.0 MPa)	4,000 psi (27.6 MPa)
IZOD IMPACT STRENGTH ASTM D256	6 in.lbs/in. (0.27 N.m/cm)	5.1 in.lbs./in. (0.23 N.m/cm)	7.2 in.lbs./in. (0.32 N-m/cm)
FIRE RESISTANCE ASTM D635	Self-Extinguishing	Self-Extinguishing	Self-Extinguishing
SPECIFIC GRAVITY	1.58	1.94	1.82
BARCOL HARDNESS ASTM D2583	40+ fully cured 35 minimum	55 @ Full Cure	35-40 @ Full Cure

*The data shown reflect typical results based on laboratory testing under controlled conditions. Variations from the above data are typical for field-prepared samples.*

*\*Cured 24 hours at room temperature, post-cured 4 hours, and conditioned 4 hours at room temperature before evaluation.*

#### REFERENCE

For any additional information or recommendations beyond the typical ones listed in this document, please contact your local representative of our Worldwide Distributor Network or ITW Performance Polymers for further support.

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