

Technical Bulletin # 840C

Bulletin Description

This bulletin compares the physical characteristics and the product information of the three chocking compounds offered by ITW Polymer Technologies. This information is presented in a side-by-side format to make the selection the right chocking compound for the job faster and easier.

Physical Properties

	CHOCKFAST® BLACK	CHOCKFAST® ORANGE	CHOCKFAST® GRAY
RELEVANT TECHNICAL BULLETIN	666	659	656
COMPRESSIVE STRENGTH ASTM D-695	119 MPa (17,300 psi)	131 MPa (19,000 psi)	110 MPa (16,000 psi)
COMPRESSIVE MODULUS OF ELASTICITY ASTM D-695	5517 Mpa (800,000 psi)	3675 MPa (533,000 psi)	3586 Mpa (520,000 psi)
LINEAR SHRINKAGE ASTM D-2566	0.00018 mm/mm (0.00018 in/in)	0.0002 mm/mm (0.0002 in/in)	0.0003 mm/mm (0.0003 in/in)
COEFFICIENT OF LINEAR THERMAL EXPANSION ASTM D-696 0°C-60°C (32°F-140°F)	27.0 X 10 ⁻⁶ /C° (15.0 X 10 ⁻⁶ /F°)	30.8 X 10 ⁻⁶ /C° (17.1 X 10 ⁻⁶ /F°)	30.8 X 10 ⁻⁶ /C° (16.8 X 10 ⁻⁶ /F°)
FLEXURAL STRENGTH ASTM C-580	42.7 MPa (6,200 psi)	52.5 MPa (7,615 psi)	
FLEXURAL MODULUS OF ELASTICITY ASTM C-580	9930 MPa (1.4 X 10 ⁶ psi)	5930 MPa (8.6 x 10 ⁵ psi)	
TENSILE STRENGTH ASTM D-638	20 MPa (2,900 psi)	34.2 MPa (4,970 psi)	27.5 MPa (4,000 psi)
HARDNESS ASTM D-256	55 BARCOL	40-45 BARCOL	35-40 BARCOL
IZOD IMPACT STRENGTH ASTM D-256	0.023 N.m/mm (5.1 in lb/in)	0.027 N.m/mm (6 in lb/in)	0.032 N.m/mm (7.2 in lb/in)
FIRE RESISTANCE ASTM D-635	Self Extinguishing	Self Extinguishing	Self Extinguishing
SERVICE TEMPERATURE			
MAXIMUM POUR DEPTH	62 mm (2-1/2 in)	100 mm (4 in)	50 mm (2 in)
SPECIFIC GRAVITY	1.94	1.58	1.82

ITW POLYMER TECHNOLOGIES

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ITW Polymer Technologies
Registered to ISO 9001:2009
File No. A3790



ITW Performance Polymer Europe
ISO 9001:2009
Q 06-120

Product Information

COVERAGE	4.34L 265 in ³	120/260 in ³	13.37/3.06L 816/187 in ³
APPLICATION			
TEMPERATURE			
CURE TIME (approximate)			
POT LIFE @ 21°C (70°F)	45 minutes	25-30 minutes	30-40 minutes
CLEAN UP			
PACKAGING per Unit			
UNIT WEIGHT			
SHELF LIFE			

NOTE: The physical properties quoted above are for laboratory prepared specimens. Tests on specimens from a job site may not be identical.

Reference

For design considerations and application details please request Bulletin No. 642 or contact ITW Polymer Technologies' Engineering Services Department.

Date

09/2005

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