# BLACK CORINTHO® 800

Rev. N° 1 - Date 01/19/2017

## Description

Polyurethane board for modelling

Good dimensional stability. Low coefficient of thermal expansion.

High temperature resistance in relationship to normal PU boards.

## Characteristics

| | | | |
|---|---|---|---|
| Color | | | Black |
| Nominal density | ASTM D1622/EN 1602/EN ISO 845 | lb/ft$^3$ (kg/m$^3$) | 49.95 (800) |
| Compressive resistance – Parallel (74°F/23°C) | ASTM D1621/EN 826 | psi (MPa) | 2176 (15) |
| Compressive modulus - Parallel (74°F/23°C) | ASTM D1621/EN 826 | psi (MPa) | 31908 (220) |
| Compressive resistance – Parallel (356°F/180°C) | ASTM D1621/EN 826 | psi (MPa) | 1450 (10) |
| Compressive modulus - Parallel (356°F/180°C) | ASTM D1621/EN 826 | psi (MPa) | 21756 (150) |
| Flexural strength - Parallel, Met.I (74°F/23°C) | ASTM C203/EN 12089 | psi (MPa) | 1015 (7) |
| Flexural modulus - Parallel (74°F/23°C) | ASTM C203/EN 12089 | psi (MPa) | 95725 (660) |
| Max. flexural strain, Met.I | ASTM C203/EN 12089 | Length/length | 0,012 |
| Thermal conductivity - Initial (75°F/24°C) | ASTM C518/EN 12667 | BTU·in/hr·ft$^2$·°F (mW/mK) | 1.83 (263,8) |
| Thermal conductivity – Initial (104°F/40°C) | ASTM C518/EN 12667 | BTU·in/hr·ft$^2$·°F (mW/mK) | 1.88 (271,6) |
| Coefficient of linear thermal expansion CTE (100°F/250°F, 40°C/120°C) | ASTM D696/EN13471 | 1/°F·10E-6 (1/K·10E-6) | 12,17 (21,91) |
| Coefficient of linear thermal expansion CTE (100°F/400°F, 40°C/200°C) | ASTM D696/EN 13471 | 1/°F·10E-6 (1/K·10E-6) | 11,54 (20,77) |
| Hardness | ASTM D2240/EN ISO 868 | Shore D | 50 |
| Operating temperature | | °F (°C) | -328/+392 (-200/+200) |
| Glass transition temperature (Tg) | ASTM E1356/EN ISO 113572 | °F (°C) | 464 (240) |
| Dimensional stability (180°C) - Length/Width - Thickness | ASTM D2126/EN 1604 | % | -0.68; -0.71; -0.87 |

## Handling notice

Terms "parallel" and "perpendicular" are referred to slab/specimen/block thickness direction.

In some applications polyurethane may present fire risks, e.g. if exposed to fire or to excessive heat in presence of oxygen or air, including when welding or cutting with torches.

It is the Customer's responsibility to determine if product described herein is appropriate for Customer's purposes and end-use and to ensure that working place, storage and disposal practices are in compliance with any applicable law.

DUNA-USA INC. - Headquarters: 4210 FM 1405 - Baytown, TX 77523 - Ph: 281-383-3862 - Fax: 281-383-0115
Michigan plant: 5900 West 6th street, Ludington, MI 49431
Web: www.dunagroup.com/usa/home - Email: info-dunausa@dunagroup.com

## Remarks

For usage information, personal protective equipment, transport, storage and disposal of waste it is essential to refer to the Material Safety Data Sheets.

Values shown are determined from laboratory tests and obtained under controlled conditions; they outline typical characteristics and they do not constitute anyhow a sales specification; they are based on DUNA-USA's current knowledge and experience of the products when properly stored, handled and applied in accordance with our recommendations.
This Technical Data Sheet cancels and replaces any other previous issue.

DUNA-USA does not any accept responsibility for incorrect use of its products as it cannot ensure the correct methods of application have been followed; we therefore specifically disclaim any liability for consequential or incidental damages of any kind, including lost profits.
DUNA-USA reserves the right to change the data in this information sheet without any prior notice.

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