

TECHNICAL INFORMATION

| Parameter ⁽¹⁾ | Unit, SI | Typical Values ^(2,3) | | |
|--|---------------------|---------------------------------|-----|-------|
| Thickness | mm | 11 | 15 | 19 |
| Working Temperature (recommended range) | °C | -40° to +70°C | | |
| Thickness tolerance | mm | +0.2-0.3 | | |
| Angle tolerance (at 20° C) | mm/m | -0.0+2.0 | | |
| Tolerance in flatness (based on length of the sheet) | mm/m | 1/1 | | |
| Weight | kg/m ² | 7.1 | 8.1 | 9.8 |
| Eff. Flexural Modulus [calculated with effective cross section of sheet, by Young, similar to DIN EN ISO 178] | MPa | >3750 | - | >4000 |
| Flexural Strength (ASTM D790) | MPa | 26 | - | 26 |
| Bending Stiffness (ASTM D3043) | N-m ² /m | - | - | 1460 |
| Ultimate Moment (Strength) (ASTM D3043) | N-m/m | - | - | 1660 |
| IZOD notched impact strength at 23°C (ASTM D256) | kJ/m ² | 10.5 | - | 11 |
| Dynatap Impact Strength @ +23°C maximum load (ASTM D7192) | kN | - | - | 3.9 |
| Dynatap Impact Strength @ +23°C total energy (ASTM D7192) | J | - | - | 65.8 |
| Dynatap Impact Strength @ -40°C maximum load (ASTM D7192) | kN | 4.9 | - | 5.8 |
| Dynatap Impact Strength @ -40°C total energy (ASTM D7192) | J | 48.7 | - | 93.1 |
| Compression Strength @ 10% Strain (ASTM D695) | MPa | - | - | 3.4 |
| Shore hardness (ASTM D2240) | | 71 | | |
| Heat Deflection Temperature @ 0.455 MPa (similar to ASTM D648-06) | °C | - | - | 119 |
| Sound Transmission Class (acc. ASTM E90-2004) | dB | 29 | | |
| R-value/25.4 mm thickness (acc. ASTM C518) | K*m ² /W | 0.280 | | |
| Coefficient of Thermal Linear Expansion (ASTM D696) | mm/mm/°C | 3.7 x 10 ⁻⁵ | | |

- (1) Properties designated have been determined in accordance with or substantially in accordance with the specified testing standards.
(2) Typical values represent average laboratory values and are intended as guides only, not as specifications.
(3) All products are formulated using high density polyethylene

Contact a representative to learn how INNOLAST™ lightweight composite panel can add value to your applications

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