



Physical Properties

PALIGHT® Premium

Material: Rigid Foam PVC

Updated: 2/2/12 (MDW)

Notes: The table depicting the typical properties of PALIGHT Premium sheets appears below. .

Conditions, units and values in U.S. Customary units are presented in the table within parentheses. All the results depicted in this table were obtained by following the indicated ASTM method except where another method is indicated by the appearance of this symbol (b).

| Property | Conditions (U.S. Customary) | ASTM Method | Units - SI (U.S. Customary) | Value (U.S. Customary) | |
|---|--------------------------------|-------------|---|---------------------------|-----------------------|
| | | | | 3mm | 10mm |
| Physical | | | | | |
| Density | | D-1505 | g/cm ³ (lb/ft ³) | 0.65-0.7 (41-44) | 0.55-0.6 (34-37) |
| Water Absorption | 24 hr. @ 23°C | D-570 | % | 0.5 | 0.8 |
| Mechanical | | | | | |
| Tensile strength at yield | 10 mm/min (0.4 in./min) | D-638 | MPa (psi) | 16 (2300) | 11 (1600) |
| Elongation at break | 10 mm/min (0.4 in./min) | D-638 | % | 30 | 20 |
| Flexural Modulus | 1.3 mm/min (0.05 in./min) | D-790 | MPa (psi) | 900 (130,500) | 900 (130,500) |
| Flexural Strength at Yield | 1.3 mm/min (0.05 in./min) | D-790 | MPa (psi) | 28 (4,061) | 22 (3,190) |
| Notch Impact Strength Charpy | 23°C (73°F) | D-256 | J/m (ft-lbf/in) | 29 (0.54) | 17 (0.32) |
| Thermal | | | | | |
| Long Term Service Temperature | | | °C (°F) | -15 to 55 (14 to 131) | -15 to 55 (14 to 131) |
| Heat Deflection Temperature | Load: 1.82 Mpa (264 psi) | D-648 | °C (°F) | 63 (145) | 63 (145) |
| Vicat Softening Temperature | Load: 1 kg (2.2 lb) | D-1525 | °C (°F) | 75 (167) | 75 (167) |
| Coefficient of Linear Thermal Expansion | | D-696 | 10 ⁻⁵ /°C (10 ⁻⁵ /°F) | 6.7 (3.7) | 6.7 (3.7) |
| Thermal Conductivity | | C-177 | W/m ² K (Btu-in./hr-ft ² -°F) | 0.07 (0.49) | 0.07 (0.49) |
| Optical | | | | | |
| Whiteness Index | | D-792 | WI | 103 | |
| Electrical | | | | | |
| Surface Resistance | Ketley | D-257 | Ohm | 5 x 10 ¹⁵ | |
| Volume Resistance | Ketley | D-257 | Ohm-cm | 2 x 10 ¹⁶ | |



¿Preguntas? ¿Necesita mayor información?

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