

TUFFAK FD polycarbonate sheet

FDA FOOD CONTACT COMPLIANT

TUFFAK FD sheet is a non-UV stabilized transparent polycarbonate product which complies with FDA regulation 21 CFR § 177.1580 requirements for food contact. It features outstanding impact strength, superior dimensional stability, high temperature resistance, and high clarity. Ideally suited for demanding applications in food processing environments, as well as medical applications, this lightweight thermo-formable sheet is also easy to fabricate and decorate. TUFFAK FD sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

APPLICATIONS

Food processing equipment and guards, bulk food bins, candy molds, sneeze guards, single use autoclave packaging, hospital trays, bassinets, incubators, medical device storage containers

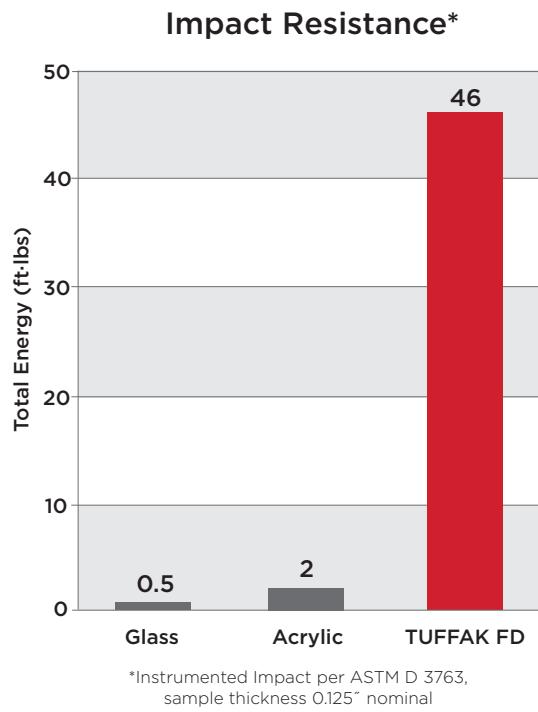
Regulatory code compliance and certifications

UL 94: Flammability File #E87887

| Typical Properties* | | | |
|--|-------------|------------------|---------------|
| Property | Test Method | Units | Values |
| PHYSICAL | | | |
| Specific Gravity | ASTM D 792 | - | 1.2 |
| Refractive Index | ASTM D 542 | - | 1.586 |
| Light Transmission, Clear @ 0.118" | ASTM D 1003 | % | 86 |
| Water Absorption, 24 hours | ASTM D 570 | % | 0.15 |
| Poisson's Ratio | ASTM E 132 | - | 0.38 |
| MECHANICAL | | | |
| Tensile Strength, Ultimate | ASTM D 638 | psi | 9,500 |
| Tensile Strength, Yield | ASTM D 638 | psi | 9,000 |
| Tensile Modulus | ASTM D 638 | psi | 340,000 |
| Elongation | ASTM D 638 | % | 110 |
| Flexural Strength | ASTM D 790 | psi | 13,500 |
| Flexural Modulus | ASTM D 790 | psi | 345,000 |
| Compressive Strength | ASTM D 695 | psi | 12,500 |
| Compressive Modulus | ASTM D 695 | psi | 345,000 |
| Izod Impact Strength, Notched @ 0.125" | ASTM D 256 | ft-lbs/in | 18 |
| Izod Impact Strength, Unnotched @ 0.125" | ASTM D 256 | ft-lbs/in | 60 (no break) |
| THERMAL | | | |
| Coefficient of Thermal Expansion | ASTM D 696 | in/in/°F | 3.75 x 10-5 |
| Coefficient of Thermal Conductivity | ASTM C 177 | BTU·in/hr·ft2·°F | 1.35 |
| Heat Deflection Temperature @ 264 psi | ASTM D 648 | °F | 270 |
| Heat Deflection Temperature @ 66 psi | ASTM D 648 | °F | 280 |
| Brittleness Temperature | ASTM D 746 | °F | -200 |
| ELECTRICAL | | | |
| Dielectric Constant @ 10 Hz | ASTM D 150 | - | 2.96 |
| Dielectric Constant @ 60 Hz | ASTM D 150 | - | 3.17 |
| Volume Resistivity | ASTM D 257 | Ohm·cm | 8.2 x 1016 |
| Dissipation Factor @ 60 Hz | ASTM D 150 | - | 0.0009 |
| Arc Resistance | | | |
| Stainless Steel Strip electrode | ASTM D 495 | Seconds | 10 |
| Tungsten Electrodes | ASTM D 495 | Seconds | 120 |
| Dielectric Strength, in air @ 0.125" | ASTM D 149 | V/mil | 380 |
| FLAMMABILITY | | | |
| Ignition Temperature, Self | ASTM D 1929 | °F | 1022 |
| Ignition Temperature, Flash | ASTM D 1929 | °F | 824 |
| Flame Class @0.060" | UL 94 | - | HB |

*Typical properties are not intended for specification purposes

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These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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