


























PLASTIC SHIM

MATERIAL SPECIFICATION SHEET

Colour coded plastic shim stock specification for thicknesses ranging from 0.001" (0.025mm) Thick to 0.35" (0.35mm) Thick

| Colour | Thickness / mm | Thickness / Inches | Sheet Size |
|---|----------------|--------------------|----------------|
| Polyester | | | |
| PURPLE  | 0.025 | 0.0010 | 1220mm x 610mm |
| PINK  | 0.037 | 0.0015 | 1220mm x 610mm |
| DARK BLUE  | 0.050 | 0.0020 | 1220mm x 610mm |
| BLACK  | 0.063 | 0.0025 | 1220mm x 610mm |
| GREEN  | 0.075 | 0.0030 | 1220mm x 610mm |
| AMBER  | 0.100 | 0.0040 | 1220mm x 610mm |
| BROWN  | 0.125 | 0.0050 | 1220mm x 610mm |
| CLEAR  | 0.150 | 0.0060 | 1220mm x 610mm |
| PEACOCK BLUE  | 0.175 | 0.0070 | 1220mm x 610mm |
| HAZY  | 0.190 | 0.0075 | 1220mm x 610mm |
| TINT BLUE  | 0.200 | 0.0080 | 1220mm x 610mm |
| SILVER  | 0.225 | 0.0090 | 1220mm x 610mm |
| WHITE  | 0.250 | 0.0100 | 1000mm x 915mm |
| GOLD  | 0.275 | 0.0110 | 1100mm x 650mm |
| DARK GREEN  | 0.300 | 0.0120 | 1100mm x 650mm |
| Translucent White  | 0.500 | 0.0200 | 650mm x 1100mm |
| Polypropylene | | | |
| NATURAL  | 0.350 | 0.0140 | 1000mm x 940mm |
| RED  | 0.375 | 0.0150 | 650mm x 1100mm |
| LIGHT GREY  | 0.625 | 0.0250 | 650mm x 1100mm |
| LIGHT BLUE  | 0.750 | 0.0300 | 650mm x 1100mm |
| TAN  | 1.000 | 0.0400 | 650mm x 1100mm |
| CHARCOAL GREY  | 1.250 | 0.0500 | 650mm x 1100mm |
| CREAM  | 1.500 | 0.0600 | 650mm x 1100mm |

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Colour coded plastic shimstock specification for thicknesses ranging from 0.001" (0.025mm) Thick to 0.014" (0.35mm) Thick

Typical Value Properties

| <u>Property</u> | | <u>Values</u> | <u>Test Method</u> |
|--|------------------------------|---------------------------|---------------------------|
| <u>General:</u> | | | |
| Relative Density | | 1.4Kg/m ² | ASTM D 1505 |
| Water absorption | | 0.60%(1 week 23°C) | |
| <u>Mechanical</u> | | | |
| Tensile Strength | 2000Kgf/cm ² | 2600Kgf/cm ² | ASTM D 882 |
| Yield Strength | 1000 Kgf/cm ² | 1000Kgf/cm ² | ASTM D 882 |
| Elongation at break | 125% | 80% | ASTM D 882 |
| Ultimate Compressive Strength | | 28500psi (250A) | ASTM D 695-63 T |
| <u>Electrical</u> | | | |
| Dielectric Strength | 6.4Kv(23mic) 16Kv(125mic) | 23Kv (250mic) | ASTM D 149 |
| Surface Resistivity | >10/13ohn/ | | |
| <u>Thermal</u> | | | |
| Service Temperature | | -70°C to +130°C | |
| Melting Point | | 265c | |
| Co-efficient of thermal | | 19 x 10 (MD*) cm/cm/deg/c | |
| Expansion (between 20oc & 50 °C) | | 19 x 10 (TD*) cm/cm/deg/c | |
| Shrinkage (after 5 mins @190 °C) | | 3% (MD* and TD*) | |
| <u>Chemical</u> | | | |
| Resistant to: Dilute acids and alkalis, greases, oils, fats, organic solvents, alcohols, hydrocarbons, ketones, esters & chlorinated compounds | | | |

*MD – machine direction

*TD – transverse direction

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Colour-coded Plastic Shimstock Specification for Thicknesses Ranging From 0.015” (0.038mm) THK to 0.125” (3.00mm) THK

‘RED AND THICKER’

Typical Value Properties

| <u>Property</u> | <u>Values</u> | <u>Test Method</u> |
|---------------------------------------|------------------------------------|---------------------------|
| Tensile strength at yield | 3560 lbf/in ² | BS 2782 301G |
| Ultimate compressive strength | 4000-8000 psi | - |
| Elastic modules in tension | 200,000 lbf/in ² | ASTM D790 59T |
| Izod impact strength (1.0mm notch) | 8ft. lbf/in notch 430 J/M notch | BS 2782 306A |
| Brittle failures | None | |
| Brinell hardness | 9.5 | BS240 |
| Softening point | 144c | BS 2782 102D |
| Co-efficient of linear expansion | 11 x 10 ⁵ per deg. C | |
| Surface resistivity | >10 ¹⁵ ohm | BS 2782 203 A |
| Volume resistivity | >10 ¹⁵ ohm cm | BS 2782 202 A |
| Electric strength | | BS 2782 206 B |
| Specific Gravity | 0.91 to 0.95 | |
| Water absorption | 0.3mg (<0.02%) | BS 2782 502 D |

*MD – machine direction

*TD – transverse direction

Resistant to: Polypropylene sheet is resistant to aqueous solutions of non-oxidizing or inorganic compounds, most Alcohols, ketones and mineral oils. It is however, affected by concentrated solutions of oxidizing Agents, ethers, esters, and chlorinated hydrocarbons, some aromatic compounds, petrol and paraffin.



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