



**PLASTIC SHIM**  
**POLYPROPYLENE SPECIFICATION**

**KEY BENEFITS:**

- Lightweight
- Working temperatures and tensile strength are superior to low or high density polyethylene
- Good abrasion resistance
- USDA/FDA approved
- Impact resistant
- Machinable
- Low moisture absorption rate
- Stain resistant
- Poor UV resistance

**TYPICAL PROPERTIES:**

PROPERTIES	VALUE	SPECIFICATION
<b><i>Physical</i></b>		
Penetration resistance	Medium	
Thickness range	0.38mm; 0.50mm; 0.64mm; 0.75mm; 1.00mm & 1.50mm	
Colour range	Red; Yellow; Grey; Blue; Black; Grey & White	
Moisture absorption	0.01% - 0.03%	24 hour period / 1/8" thick material
<b><i>Mechanical</i></b>		
Tensile strength	5,000 p.s.i.	ASTM – D638
Elongation (%)	10 - 20	ASTM – D638



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(continued)

PROPERTIES	VALUE	SPECIFICATION
<b>Thermal</b>		
Coefficient of thermal expansion (10~5 in./in - °F)	3.2 – 5.7	ASTM – D696
Flammability rating	HB	UL94
Melt point	150 °C	BS2782 102D Aristech
<b>Electrical</b>		
Resistivity - surface	10 <sup>15</sup> ohm at 73 °F, 50% RH	ASTM – D257 BS 2782 203A
Resistivity - volume	10 <sup>16</sup> ohm cm	BS 2782 202A
Electrical strength	19kV/mm	BS 2782 201C
Dielectric constant at 1kHz	2.2 – 2.6 0.01% - 0.03%	ASTM - D150
Arc resistance	160	ASTM – D495

*The information provided here is consistent with the current state of knowledge and is intended to provide general information.*