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Vinyl Plastisol™

General Description

Plastisol™ is a thermoplastic material, which is molded to the required form using a dip molding process (also known as dip casting or dip coating). The material is a semi-rigid high temperature formula. It will withstand 400°F to 450°F (204°C to 232°C) for 30 minutes. The material has a smooth surface with medium to high gloss.

Specification

Description	ASTM Test Method	Unit	Value
Hardness	D2240 (Instantaneous)	Shore A	86 ^{±5}
Tensile Stress at break. Minimum	D412	PSI	1890
Elongation. Minimum	D412	%	297
Modulus at 100% strain	D412	PSI	990
Tear Strength. Minimum	D624	PPI	234
Dielectric Strength	D149		412 Volts / Mil ^{±25V} (at 0.100" thickness)
Volume Resistivity at 70°C	D257	Ohm-cm	4.53 * 10 ¹⁰
Dielectric Constant at 1KHz	D150		2.6
Flammability, Oxygen Index	D2863-91	%	22.6
Surface Resistivity	D257	Ohms/sq	2.04 * 10 ¹¹
Ozone Resistance (24hrs)	D1149		No Cracking or Crazing
Low Temperature Impact	D746		-15°F (Brittleness temp)
Dissipation Factor at 1KHz	D150		0.16