

PLASTISOL TECHNICAL SPECIFICATIONS

Product

Grey Electrically Resistant Plastisol (D4090)

Composition

Blend of PVC Polymer and Specialised Plasticisers. Colour matched to customer's requirements with non-toxic high quality, heat and light fast pigments. This material has been designed to produce mouldings that will withstand variation of heat, and are flame retardant and electrically resistant.

Application / Use

Dip / Slush Moulding, Rotational Casting

Physical Properties

Viscosity: 3,000 +/- 500 cps @ 20°C

Brookfield spindle 3./10 rpm - RV Viscometer

Specific Gravity: 1.15 – 1.23 gcm⁻³ @ 20°C

BS2782 Part 6 (Method 620 A – D 1980)

Shore A Hardness: 65 – 70 Shore A Hard

ISO 868 – 1985 / DIN 53505 – 300 – 350%

BS 2782 Part 3 DIN 53455 ASTM D – 638 – 89

Tensile Strength: 15 MNm⁻²

BS 2782 Part 3 DIN 53455 ASTM D – 638 – 89

Service Temperature: 60°C Max (Constant), 105°C Intermittent

ISO 1184 – 83

Colour Matching System: CIE L*a*b (1976) Colour Systems.

Minolta CR300 Colorimeter Illuminant CIE and/or D65 in difference Mode ?? =1.0

Abrasion Resistance: 60mg / 1000 cycles

Resistance to surface damage to wear, caused by rubbing by prescribed abrasives in specific conditions

ASTM D1044 – 78

Cs 10 wheels 1 Kilo load

Low Temperature flexibility: -40°C

Clash and Berg

Flammability Rating: V1-Vo @ 1.5mm thickness

UL 94 Vertical Burn Test

Volume Resistivity: 1 x 10¹⁵ Ohm/cm (60% RH Room Temp)

The electrical resistance between opposite faces of a unit sided cube of material

ASTM D 257 – 78 DIN VDE 0303 Part 3

Dielectric Strength: 600 Vmil 0⁻¹

Field strength (Ratio of applied voltage to thickness) required to produce a breakdown of the material.

BS 2782: 1970 Method 201 ASTM D 150 – 87 DIN VDE – 0303 Part 4