

SATELLITE INDUSTRIES

Plot No 2802/C , 3rd Phase, G.I.D.C, Umbergam, Dist-Valsad, Gujarat -396171

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Name: Glass Reinforced Powder (SI-042)

Grade: SI-042

Color: Black, Brown

Filler: Glass

Moulding Process: Injection, Transfer

Features: Low water absorption, very low shrinkage and high heat resistance, electrical resistance.

Powder Properties:

Apparent Density	gm/ml	0.70-0.80
Bulk Factor	----	2.2-2.57
Shrinkage	cm/cm	0.001-0.003
Pelleting	----	Fair

Physical Properties:

Impact Strength	Kg-cm	3-6
Tensile Strength	kg/cm ²	300-350
Cross Breaking strength	kg/ cm ²	600-750
Crushing Strength	kg/ cm ²	2500-3000
Specific Gravity	----	1.6-1.8
Plastic yield at 180°C	mm	2-3

Electrical Properties:

Electrical Strength at 90°C	V/mm	9000-11000
Volume resistivity	log10 ohm-cm	11.0-12.0
Surface resistivity	log10 ohm	11.0-12.0

Other Properties:

Water absorption	mg	350
Coefficient of linear thermal expansion per °C		0.000015-0.000020

Rate of cure:

Min. cure at 160°C	sec/mm	60-90
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Moulding conditions:

Recommended moulding temp.	°C	150-165
Recommended injection pressure	kg/ cm ²	80-120
Recommended moulding pressure	kg/ cm ²	250-450