

Technical Datasheet

BSCS Part №: PS7KAST - Conductive Ultra High Molecular Weight PE (Polyethylene)

Perfect for use in industrial applications where excellent mechanical & static control properties are required, e.g. conveyor systems, change-parts, jigs & fixtures, etc.

- Colour - black
- Typical resistance of <math><1 \text{ MOhm}</math> (- Sheet sizing: 3 < 8mm thick with sheet sizes <math>< 1 \times 2\text{m}</math> / 8 < 100mm thick with sheet sizes <math>< 2 \times 3\text{m}</math>
- Also available as finished machined parts

Product Characteristics

- Reduction of dust deposit
- High wear resistance
- High impact strength
- Machinable

Product Applications

- Mechanical engineering
- Packaging industry
- Electrical / electronic industries
- Static Control

General Properties			
Density	0.95	g/cm ³	DIN EN ISO 1183-1
Flammability	HB/HB	3mm / 6mm	UL 94
Absorption of Moisture	<math><0.01</math>	%	DIN EN ISO 62
Mechanical Properties			
Yield Stress / Tensile Strength	22	MPa	DIN EN ISO 527
Tensile Elongation	>200	%	DIN EN ISO 527
Tensile Modulus of Elasticity	700	MPa	DIN EN ISO 527
Shore hardness	63	Skala D	DIN EN ISO 868
Thermal Properties			
Melting Temperature	135	°C	ISO 11357-3
Thermal Conductivity	0.40	W / (m - K)	DIN 52612-1
Specific Thermal Capacity	1.90	kJ / (kg - K)	DIN 52612
Coefficient of Linear Thermal Expansion	150 – 230	10 ⁻⁶ K ⁻¹	DIN 53752
Service Temperature, Long Term (min)	-150 ... 80	°C	Benchmark
Service Temperature, Long Term (max)	80	°C	Benchmark
Service Temperature, Short Term	130	°C	Benchmark
Heat Deflection Temperature	79	°C	DIN EN ISO 306 (Vicat B)
Electrical Properties			
Specific Volume Resistivity	<math><10^6</math>	$\Omega \text{ cm}$	DIN IEC 60093
Surface Resistivity	<math><10^6</math>	Ω	DIN VDE 0303-3

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