

## Technical Data Sheet

**Vitamide BS10 BLACK 1393/1**

Acrylonitrile Butadiene Styrene

**Product Description**

*Vitamide* BS10 BLACK 1393/1 is a Acrylonitrile Butadiene Styrene material. Features include: High Gloss, and High Impact Resistance.

<b>Attribute</b>	High Gloss; High Impact Resistance
<b>Additive</b>	Antistatic
<b>Application</b>	Safety Helmets

<b>Typical Properties</b>	<b>Nominal Value</b>	<b>Units</b>	<b>Test Method</b>
<b>Physical</b>			
Melt Flow Rate, (220 °C/10.0 kg)	15	g/10 min	ISO 1133
Density	1.05	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield, (50 mm/min)	40.0	MPa	ISO 527-2
Flexural Modulus	2000	MPa	ISO 178
<b>Impact</b>			
Notched Izod Impact Strength, (Type 1, Notch A)	40	kJ/m <sup>2</sup>	ISO 180
<b>Hardness</b>			
Ball Indentation Hardness	80	MPa	ISO 2039-1
<b>Thermal</b>			
Vicat Softening Temperature, (B (50N), 50 °C/h)	95.0	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	94	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	91	°C	ISO 75-2/A
<b>Electrical</b>			
Dielectric Strength	>25	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI), (Solution A)	>600	V	IEC 60112
Surface Resistivity	1E+16	ohm	IEC 60093
<b>UL Information</b>			
Flame Rating, (1.6 mm)	HB		UL 94