

**ABS grade 103 plastic material**

acrylonitrile butadiene styrene copolymer (ABS) granulate / powder



<i>Properties</i>	<i>Test methods</i>	
	<i>ISO</i>	<i>DIN</i>
<u>Mechanical Properties</u>		
<i>Charpy notched Impact strength:</i>		
at +23 deg C	179/2c	53453
at - 20 deg C	10 Kj/sq metre	7 Kj/sq metre
<i>Izod notched impact strength:</i>		
at +23 deg C (thickness 6.4mm)	180/3A	---
at - 20 deg C (thickness 6.4mm)	11 Kj/sq metre	6 Kj/sq metre
<i>Tensile test:</i>		
tensile strength at yield	R527/1C	53455-3-5
elongation at yield	40 N/sq.mm	4%
<i>Flexural test:</i>		
flexural strength	178B	70 N/sq.mm
modulus in flexure		2400 N/sq.mm
<i>Surface hardness:</i>		
Rockwell hardness	103R	2039/2
ball indentation hardness	90 N/sq.mm	2039/1
<u>Thermal Properties</u>		
<i>Heat Deflection Temperature:</i>		
unannealed	75/A	53461/A
annealed	80 deg. C	86 deg. C
<i>Vicat softening temperature</i>	86 deg. C	306/B50
<i>Flammability properties</i>	HB	UL94
<u>Physical Properties</u>		
<i>Density</i>	1200 Kg/cu.metre	1183/A
<i>Melt flow Index</i>	55 dg/min	1133/19
<i>Gloss</i>	59	---
<i>Processing temperatures</i>	200-230 deg C	---

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