



**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>
<b><u>Mechanical Properties</u></b>		
<b>Charpy notched impact strength:</b>		
at +23 deg C	10 Kj/sq metre	53453
at - 20 deg C	7 Kj/sq metre	
<b>Izod notched impact strength:</b>		
at +23 deg C (thickness 6.4mm)	11 Kj/sq metre	---
at - 20 deg C (thickness 6.4mm)	6 Kj/sq metre	
<b>Tensile test:</b>		
tensile strength at yield	40 N/sq.mm	53455-3-5
elongation at yield	4%	
<b>Flexural test:</b>		
flexural strength	70 N/sq.mm	53452
modulus in flexure	2400 N/sq.mm	---
<b>Surface hardness:</b>		
Rockwell hardness	103R	2039/2
ball indentation hardness	90 N/sq.mm	2039/1
		53456
<b><u>Thermal Properties</u></b>		
<b>Heat Deflection Temperature:</b>		
unannealed	80 deg. C	53461/A
annealed	86 deg. C	
<b>Vicat softening temperature</b>	86 deg. C	306/B50
		53460
<b>Flammability properties</b>	HB	UL94
<b><u>Physical Properties</u></b>		
<b>Density</b>	1200 Kg/cu.metre	1183/A
		53479
<b>Melt flow Index</b>	55 dg/min	1133/19
		53735/U
<b>Gloss</b>	59	---
		67530
<b>Processing temperatures</b>	200-230 deg C	---
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Manufacturer ; JGP PERRITE  
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