



# BHANSALI ENGINEERING POLYMERS LIMITED

BEPL/ML/PS/69

## PRODUCT SPECIFICATION

GRADE	SANTRON- IMS-1000			
FEATURE	MEDIUM FLOW, STATIONARY ITEMS			
PRESENTATION	CLEAR LIGHT BLUE			

### TYPICAL PROPERTY DATA

PROPERTIES	ASTM TEST METHOD	TEST CONDITION	UNIT	INJECTION MOULDED VALUE	TOLERANCE
<b>PHYSICAL PROPERTIES</b> at 23 deg C					
Melt Flow Rate	D-1238	220 °C/10kg	gm/10 min	35	+/- 5
Mold Shrinkage	D-955		cm/cm	0.4-0.5	
Specific Gravity*	D-792		-	1.07	+/- 0.005
<b>THERMAL PROPERTIES</b>					
Heat Deflection Temperature* 12.7mm x 6.4mm x 127mm Ba	D-648	18.56 Kg/cm <sup>2</sup> Annealed at 80 Deg C/2 H	°C	95	+/- 2
Vicat Softening Point	D-1525			108	+/- 4
Flammability Rating at 0.32 cm	UL-94		-	HB	-
<b>MECHANICAL PROPERTIES</b>					
Notched Izod Impact Strength	D-256	3.2 mm	Kgf cm/cm	3	
Tensile Strength at yield *	D-638	50 mm/min	Kg/cm <sup>2</sup>	700	+/- 50
Tensile Strength at yield	D-638	5 mm/min	Kg/cm <sup>2</sup>	650	+/- 50
Yield Flexural Strength*	D-790	5 mm/min	Kg/cm <sup>2</sup>	1000	+/- 100
Hardness, Rockwell R	D-785		R-scale	122	+/- 3

\* To be measured as and when necessary

\* It is necessary to pre-dry material at 85~90°C for 2 to 3 hours prior to processing.

\* Injection molding conditions- 190 - 230°C

\* Disclaimer - The values have been determined on standard Test specimens made in Natural colour using injection moulding. We do not stand warranty of any type that these values are reproducible as the physical and other properties will vary subject to moulding conditions, test specimen preparation etc.