TECHNICAL DATA SHEET

HIPS

Grade : **HIPS 300 FR VO NATURAL**
Colour : Natural
Description : HIPS FR filled with excellent mechanical Properties, Natural and customized colours.

Properties	Test Condition	Test Method	Unit	Typical Value	Tolerance
Physical					
Specific Gravity		ASTM D792	-	1.16	+/-0.02
Melt Flow Rate	200° C/ 5 Kg	ASTM D1238	g/10min	15	+/-4
Mould shrinkage	23°C		%	0.5	+/-0.02
Ash Content	750°C	ASTM D5630	%	0	+/-2
Mechanical					
Tensile Strength@yield	50mm/min	ASTM D638	Mpa	30	+/-5
Tensile Elongation@Break	50mm/min	ASTM D638	%	10	+/-2
Flexural Modulus	2mm/min	ASTM D790	Mpa	1400	+/-100
Flexural Strength	2mm/min	ASTM D790	Mpa	90	+/-10
Izod Impact 3.2 mm Notched	23°C	ASTM D256	Kg cm/cm	10	+/-2
Izod Impact 6.4mm Notched	23°C	ASTM D256	Kg cm/cm	10	+/-2
Rockwell Hardness	23°C	D 785	M scale	90	+/-2
Thermal					
Heat Deflection Temperature (annealed)	1.80 Mpa	ASTM D648	°C	88	+/-2
Flammability		UL94		VO(1.5MM)	PASS

Typical values are only for material selection purpose, and variation within normal tolerances are for various colours and grades.
Values given should not be interpreted as specification and not be used for part or tool design.
All properties, except melt flow rate are measured on injection moulded specimens and after 48 hours storage at 23°C, 50% relative humidity