

Technical Datasheet HIPS

General Information

General information	HIPS Filament
Polymer Name	High Impact Polystyrene

Filament specifications

Trade diameter	1.75	mm
physical diameter	1.75	mm
tolerance	0.05	mm

Material specifications

Property	Value	unit	Test method
General			
Density	1.05	g/cc	ASTM D792
Mechanical			
Flexural Modulus	1985	MPa	ASTM D792
Flexural Strength	53	MPa	ASTM D792
Tensile Modulus	1465	MPa	ASTM D638
Tensile Strength	11	MPa	ASTM D638
Tensile Elongation, Break	6	%	ASTM D638
Thermal Property			
Glass Transition Temperature(Tg)	90	°C	DSC
Heat Distortion Temperature (HDT) @0.45MPa	84.5	°C	ASTM D3418