



Technical Datasheet ABS

General information

General information	AFT ABS Filament
polymer name	Acrylonitrile Butadiene Styrene

Filament specifications

Trade diameter	1.75mm		3mm	
physical diameter	1.75	mm	2.85	Mm
tolerance	0.05	mm	0.10	mm

Material specifications

Property	Value	unit	Test method
Physical			
Density	103	g/cm ³	ISO 1183/B
Melt mass flow rate	5.6	g/10min	ISO 1133
Mechanical			
strength, flexural	52	MPa	ISO 178
tensile modulus	2050	MPa	ISO 527-2
tensile stress @ yield	38	MPa	ISO 527-2
strain @ break	8	%	ISO 527-2
tensile izod impact strength			
-30 °C	14	kJ/m ²	ISO 180-A
23 °C	36	kJ/m ²	ISO 180-A
Thermal			
heat deflection temperature under load			
50 N, 50 °C/h	90	°C	ISO 306
10 N, 50 °C/h	103	°C	ISO 306
linear thermal expansion	0.000090	Cm/cm/°C	ISO 11359

