ABS

Mechanical property*	Standard	Unit	Value
Young modulus	ISO 527-2	MPa	1900
Yield tensile strenght	ISO 527-2	MPa	26.1
Tensile strength at break	ISO 527-2	MPa	23.5
Elongation at yield	ISO 527-2	%	2.0
Elongation at break	ISO 527-2	%	5.0
Flexural modulus	ISO 178	MPa	10500
Flexural yield strength	ISO 178	MPa	54.8
Flexural strength at break	ISO 178	MPa	50.2
Flexural elongation at yield	ISO 178	%	8.0
Flexural elongation at break	ISO 178	%	1.2
Impact resistance (Charpy), unnotched	ISO 179-1	KJ/m^2	14.9
Compression modulus	ISO 604	MPa	855
Compression strength at yield	ISO 604	MPa	36.9
Compression strain at yield	ISO 604	%	5.4

Thermal property	Standard	Unit	Value
Melting temperature	ISO 11357	°C	--
Glass transition temperature	ISO 11357	°C	104
HDT at 1,80 MPa (unannealed)	ASTM D 648	°C	85
Vicat temperature 1kg, 50°C/h	ASTM D1525	°C	103

Other	Standard	Unit	Value
Density (specific gravity)	ISO 1183-1	g/cm^3	1.03
Electrical dissipation factor			--
Flame resistance	UL94		HB**
Railroad application compatibility	EN 45545		No
Biocompatibility			No
Blue card			No
Water contact			No
Food contact	FDA 21; EU 10/2011		No

**Above values are obtained from samples printed on A4v4 at 0.2mm layer thickness.*
***Product is compliant but not certified.*
The information presented on this document should be used for comparison and self instruction purposes only and are not intended to substitute customer testing to certify the material suitability for customer use and application.
Actual values will vary according to production settings, test conditions and user part geometry – the above values are not meant to be used as design specification or production control testing reference values.
The user is responsible about the end-of-life disposal/recycling of the product.
No warranty of any kind, express or implied, are given to merchantability, fitness for a particular use or warranty against patent infringement and alike.
Nothing in this sheet is to be meant as a license to operate under or a recommendation to infringe upon any intellectual property right.