ABS HD

Mechanical property	Standard	Unit	Value
Young modulus	ISO 527-2	MPa	2450
Yield tensile strenght	ISO 527-2	MPa	47
Tensile strength at break	ISO 527-2	MPa	--
Elongation at yield	ISO 527-2	%	--
Elongation at break	ISO 527-2	%	16
Flexural modulus	ISO 178	MPa	2500
Flexural yield strength	ISO 178	MPa	--
Flexural strength at break	ISO 178	MPa	--
Flexural elongation at yield	ISO 178	%	--
Flexural elongation at break	ISO 178	%	--
Impact resistance (IZOD), unnotched	ISO 180-1A	KJ/m^2	14
Compression modulus	ISO 604	MPa	--
Compression strength at yield	ISO 604	MPa	--
Compression strain at yield	ISO 604	%	--

Thermal property	Standard	Unit	Value
Melting temperature	ISO 11357	°C	--
Glass transition temperature	ISO 11357	°C	107
HDT at 1,80 MPa (unannealed)	ASTM D 648	°C	--
Vicat temperature 1kg, 50°C/h	ASTM D1525	°C	97

Other	Standard	Unit	Value
Density (specific gravity)	ISO 1183-1	g/cm^3	1.06
Electrical dissipation factor			--
Flame resistance	UL94		No
Railroad application compatibility	EN 45545		No
Biocompatibility			Yes**
Blue card			No
Water contact			No
Food contact	FDA 21; EU 10/2011		Yes**

***Polymer is compliant and certification is available only for pellets.*

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.
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