

PC-ABS V0

Mechanical property*	Standard	Unit	Value
Young modulus	ISO 527-2	MPa	2400
Yield tensile strenght	ISO 527-2	MPa	50.2
Tensile strength at break	ISO 527-2	MPa	47.6
Elongation at yield	ISO 527-2	%	4.1
Elongation at break	ISO 527-2	%	5.0
Flexural modulus	ISO 178	MPa	13200
Flexural yield strength	ISO 178	MPa	91.8
Flexural strength at break	ISO 178	MPa	78.5
Flexural elongation at yield	ISO 178	%	0.9
Flexural elongation at break	ISO 178	%	1.4
Impact resistance (Charpy), unnotched	ISO 179-1	KJ/m ²	28.1
Compression modulus	ISO 604	MPa	868
Compression strength at yield	ISO 604	MPa	53.1
Compression strain at yield	ISO 604	%	6.7

Thermal property	Standard	Unit	Value
Melting temperature	ISO 11357	°C	--
Glass transition temperature	ISO 11357	°C	125
HDT at 1,80 MPa (unannealed)	ASTM D 648	°C	105
Vicat temperature 50N	ASTM D1525	°C	125

Other	Standard	Unit	Value
Density (specific gravity)	ISO 1183-1	g/cm ³	1.03
Electrical dissipation factor			--
Flame resistance	UL94		V0**
Railroad application compatibility	EN 45545		R22/HL3; R23 HL3; R24 HL3**
GWFI	IEC 60695-2-12	°C/min	850/2
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 was certified on injection molding specimens. Certification was carried out by the pellets manufacturer.

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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