

Main features

Low warpage

Impact resistance

Low water absorption

High-strength and stiffness parts with low creep

Physical properties

Physical properties	Test method	Specimen	Units	Typical value
Specific gravity	ISO 1183		g/cm ³	0.96
Water absorption				

Mechanical Properties at 23°C

Tensile strength

Tensile modulus	ISO 527-1. -2		MPa	1450
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Impact strength

Impact strength notched	ISO 179		kJ/m ²	4.0
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Flexurtal modulus

Flexurtal strength

Flexural elongation F. max.

Elongation F. max.

Thermal properties

Heat distortion temperature	ISO 306		°C	74
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Continuous service temperature

Electrical properties

Insulation resistance

Disclaimer

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Material DataSheet E-lene

TDS Nr.: 5020

Rev. 2.0 25/03/2025

SUGGESTED PRINT SETS (I)

Suggest print sets	Unit	Value	Test method
Extruder temp	C°	235-250	Internal
Plate temp	C°	30 - 60	Internal
Min. nozzle diameter	mm.	0,3	Internal
Fan	%	0 - 70	Internal
Print speed	mm/l°	30 - 40	Internal

ADDITIONAL INFORMATION

In General filaments made with E-lene can be processed on conventional 3D printer using FDM / FFF technology.

E-lene is a PEHD developed for 3D printing, as all polyolefin no need to be dried before use.

Don't leave the filament inside the printer with hot extruder for more than 1 hour.

(I) Suggested print set merely represent a recommendation for general use . Every printer necessity a specific set , nozzle temp, bed temp, etc .

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