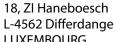
Values



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KIMYA PEI-1010 3D FILAMENT

Test Methods

Flame resistant and industry-ready Filament for FFF 3D printers

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DESCRIPTION

RTECH

Kimya PEI-1010 is a 3D printing filament made from polyetherimide (PEI), an amorphous thermoplastic belonging to the polyimide family. Known for its excellent resistance to high temperatures and chemicals, PEI-1010 also offers outstanding dimensional stability, making it ideal for precision applications. It is widely used in demanding industries such as electronics, transportation, and medical, where mechanical strength and thermal reliability are essential.

BENEFITS

- UV and Chemical Resistance.
- Flame retardant.

Properties

• Dimensional Stability.

TECHNICAL DATA

value5	1 CSt MCtilous
1.75 ± 0.1 mm 2.85 ± 0.1 mm	INS-6712
1.28 g/cm³ (0.046 lb/in³)	ISO 1183-1
14 - 16 g/10 min	ISO 1133-1(@340°C-5kg)
217°C (423°F)	ISO 11357-1 DSC (10°C/min-0-420°C)
Values	Test Methods
2,917.5 MPa (423.1 ksi)	ISO 527
90.9 MPa (13.2 ksi)	ISO 527-2/1A/50
5.6 %	ISO 527-2/1A/50
90.9 MPa (13.2 ksi)	ISO 527-2/1A/50
5.6 %	ISO 527-2/1A/50
5.6 %	ISO 527-2/1A/50
2,236 MPa (324.3 ksi)	ISO 178
> 5 %	ISO 178
76 MPa (11 ksi)	ISO 178
3.1 kJ/m ² (1.5 ft-lbs/in ²)	ISO 179-1/1eA
84.5 D	ISO 868
	2.85 ± 0.1 mm 1.28 g/cm³ (0.046 lb/in³) 14 - 16 g/10 min 217°C (423°F) Values 2,917.5 MPa (423.1 ksi) 90.9 MPa (13.2 ksi) 5.6 % 90.9 MPa (13.2 ksi) 5.6 % 5.6 % 2,236 MPa (324.3 ksi) > 5 % 76 MPa (11 ksi) 3.1 kJ/m² (1.5 ft-lbs/in²)

PROCESSING

Printing Direction Printing Speed

Nozzle Temperature **Chamber Temperature** XY

35-45 mm/s

375°C - 390°C (707°F - 734°F) 215°C - 225°C (419°F - 437°F)

NOTES

- *According to ISO 178, end of the test at 5% deformation even if there is no specimen break.
- The data should be considered as indicative values Properties can be influenced by production conditions.

Dernière mise à jour : 2025-12-22