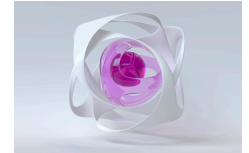


Product Information

INFINAM® TPC 8008 P

UNREINFORCED POLYESTER-BASED ELASTOMER POWDER FOR 3D PRINTING



INFINAM® TPC 8008 P is an unreinforced polyester-based elastomer powder suitable for 3D printing and laser sintering. INFINAM® TPC 8008 P is a fine powder specifically designed for use in additive manufacturing processes. Our product is suitable for manufacturing of functional prototypes, manufacturing of individual units as well as serial parts. It is particularly characterized by a high toughness and softness.

Features

- Elastomeric properties
- Dense parts without infiltration
- Nice surface finish
- Easy-to-process
- Good powder flow
- Very tight particle size distribution

The information presented resembles typical values intended for reference and comparison purposes only. Due to layer-wise construction and by variation of processing conditions the actual properties of components from additive processes will vary. Due to process-related deviations the user is responsible to ensure the characteristic values required for the respective use and to carry out additional application-related tests if necessary.

Mechanical properties ISO	dry	Unit	Test Standard
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	88	kJ/m ²	ISO 179/1eU
Type of failure	P	-	-

Mechanical properties ASTM	dry	Unit	Test Standard
Tensile Modulus	131	MPa	ASTM D 638
Strain at break	440	%	ASTM D 638
Tear Strength	0.179	kN/m	ASTM D 624
Taber Abrasion Resistance	117	mg/1000 cycles	ASTM D 1044
Abrasive wheel	C17	-	ASTM D 1044

Thermal properties

DTUL @ 66 psi

dry

85

Unit

°C

Test Standard

ASTM D 648

Physical properties

Shore D Hardness

dry

46^[a]

Unit

-

Test Standard

ASTM D 2240

a: 1 second

Rheological properties

Melt Flow Index, MFI

dry

35.7

Unit

g/10min

Test Standard

ASTM D 1238

Temperature

220

°C

-

Load

2.16

kg

-

Characteristics

Key Feature, Industrial Sector

Industry and Building Construction

Key Feature, Processing

3D printing

Key Feature, Electrical

Isolating

Key Feature, Additives

Unfilled

Processing

Laser Sintering

Special Characteristics

High impact strength

Features

Soft Feel

Color

Natural Color, Opaque

Additives

Antioxidant agent, Light stabilizer, Heat stabilizer, Processing aids

Delivery form

Powder, Fine Powder (FP)

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