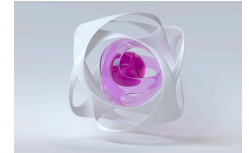


## Product Information

# 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	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>88</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Type of failure	<b>P</b>	-	-

Mechanical properties ASTM	dry	Unit	Test Standard
Tensile Modulus	<b>131</b>	MPa	ASTM D 638
Strain at break	<b>440</b>	%	ASTM D 638
Tear Strength	<b>130</b>	kN/m	ASTM D 624
Taber Abrasion Resistance	<b>117</b>	mg/1000 cycles	ASTM D 1044
Abrasive wheel	<b>C17</b>	-	ASTM D 1044

## Thermal properties

	dry	Unit	Test Standard
DTUL @ 66 psi	85	°C	ASTM D 648

## Physical properties

	dry	Unit	Test Standard
Shore D Hardness	46 <sup>[a]</sup>	-	ASTM D 2240

a: 1 second

## Rheological properties

	dry	Unit	Test Standard
Melt Flow Index, MFI	35.7	g/10min	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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