

PrimePart® ST PEBA 2301

Thermoplastic Polyamide Elastomer

EOS GmbH

Message:

PrimePart® ST (PEBA 2301) is a natural coloured powder of a polyether block amide, which is developed and optimised for the application in a Laser Sinter system.

Laser-sintered parts made from PrimePart® ST (PEBA 2301) possess excellent material properties:

- High elasticity and strength
- good chemical resistance
- excellent long-term stability
- high selectivity and detail resolution
- various finishing possibilities (e.g vibratory grinding, flame treatment, tub colouring, bond-ing, flocking)

Typical applications of the material are fully functional, flexible plastic parts of highest quality. Due to the excellent mechanical properties the material is often used as a production material for long term use. The rubber-like fatigue behaviour qualifies Prime Part® ST (PEBA 2301) as excellent prototyping and series material.

General Information			
Features	Fatigue Resistant		
	Good Chemical Resistance		
	Good Flexibility		
	Good Stability		
	Good Strength		
	Good Surface Finish		
	High Elasticity		
	High Heat Resistance		
	Soft		
Uses	Engineering Parts		
	Prototyping		
	Rubber Replacement		
Appearance	Natural Color		
	White		
Forms	Powder		
Processing Method	3D Printing, Laser Sintering/Melting		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	35		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- 1	75.0	MPa	ISO 527-2

-- ²	80.0	MPa	ISO 527-2
Tensile Stress			
-- ³	7.00	MPa	ISO 527-2
-- ⁴	8.00	MPa	ISO 527-2
Tensile Strain			
Break ⁵	200	%	ISO 527-2
Break ⁶	70	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ⁷	150	°C	ISO 11357
NOTE			
1.	X Direction		
2.	Z Direction		
3.	Z Direction		
4.	Y Direction		
5.	X Direction		
6.	Z Direction		
7.	20°C/min		

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