

Diamond Plastics Laser HDPE HX 17

Thermoplastic
Diamond Plastics GmbH

Message:

Laser HDPE HX 17 is a rigid, very good free flowing Laser Sinter powder.
Suitable for parts from above 1,5mm. 100% reusable. No blending and mixing of old and new powder. It can be varnished with comon plastic paint.
Consistent against acid and base, water, alcohol, oil and gasoline. It can be welded and crosslinked. Very smooth surface, epecially suitable for masterforms for vacuum casting.
Medium particle size:50µm. Max.particle size: 80µm. Recomendend layerheight: 100µm

General Information			
Features	Acid Resistant		
	Alcohol Resistant		
	Base Resistant		
	Crosslinkable		
	Gasoline Resistance		
	Good Flow		
	Good Wear Resistance		
	High Rigidity		
	Oil Resistant		
	Outstanding Surface Finish		
	Recyclable Material		
	Weldable		
Uses	Engineering Parts		
	Mold Making		
	Molds/Dies/Tools		
Forms	Powder		
Processing Method	3D Printing, Laser Sintering/Melting		
Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm ³	ISO 1183/A
Apparent Density	0.50	g/cm ³	DIN 53466
Melt Mass-Flow Rate (MFR)	20	g/10 min	ISO 1133
Average Particle Size	50	µm	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress	21.0	MPa	ISO 527-2
Tensile Strain (Break)	5.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact Strength (23°C)	10	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	75.0	°C	ISO 306
Melting Temperature	130	°C	DIN 53736

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Recommended distributors for this material

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