

CarbonResin EPU 40

Polyurethane

Carbon3D, Inc.

Message:

EPU 40 is a high performance polyurethane elastomer that is a good choice for applications where high elasticity, resilience, and tear resistance are needed.

General Information			
Features	High elasticity		
	Elastic		
Forms	Liquid		
Processing Method	3D Printing, Continuous Liquid Interface Production (CLIP)		
Physical	Nominal Value	Unit	
Density ¹	1.00	g/cm ³	
Viscosity (25°C)	3.50 - 4.50	Pa·s	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore A)	60 - 70		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7.00 - 9.00	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	5.00 - 7.00	MPa	ASTM D638
Fracture	5.00 - 7.00	MPa	ASTM D638
Tensile Elongation (Break)	180 - 200	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature			DMA
-- ²	-50.0	°C	DMA
-- ³	-6.00	°C	DMA
NOTE			
1.	Liquid		
2.	E'		
3.	tan(d)		

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