

# TECHNICAL DATA SHEET



Olefin Block Copolymer (OBC) printing filament is a high-performance 3D printing build material that prioritizes sustainability across the product lifecycle. Made from a unique polyethylene-based material, the OBC filament is a breakthrough material that brings polyolefin properties to 3D printing.

Revision  
**1.0**

Product  
**OBC**

	STANDARD	UNIT	TYPICAL VALUE
<b>PHYSICAL PROPERTIES</b>			
Density	ISO 527	g/cc	<b>0.9</b>
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength, Break	ASTM D792	MPa	<b>14</b>
Tensile Strength, Yield	ASTM D1708	MPa	<b>14</b>
Tensile Elongation, Break	ASTM D1708	%	<b>&gt;700</b>
Tensile Elongation, Yield	ASTM D1708	%	<b>10</b>
Flexural Modulus	-	-	-
<b>THERMAL PROPERTIES</b>			
Glass Transition Temperature (Tg)	-	°C	-
TMA	-	°C	<b>104</b>

## DATE ISSUED

**MONTH**  
 1 2 3 4 5 6 7 8 9 10 **11** 12  
**DAY**  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17  
 18 19 20 21 22 23 24 25 26 27 **28** 29 30 31  
**YEAR**  
 2018 2019 **2020**

## DISCLAIMER

The technical data contained on this data sheet should not be used to establish specifications limits or used alone as the basis of design. The data provided is not intended to substitute any testing that may be required to determine fitness for any specific use.

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