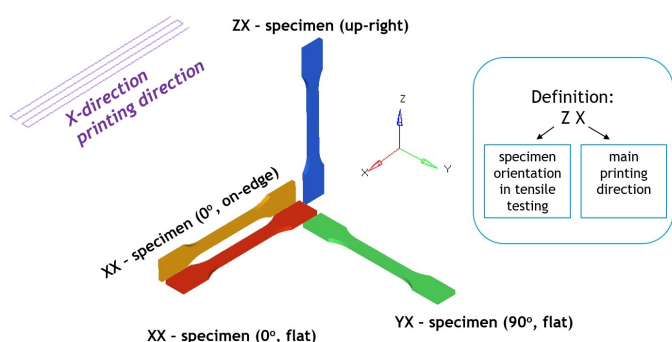


Arnite® ID3040

PET

3D printing grade

Print Date: 2021-02-24



Properties	Typical Data	Unit	Test Method
Mechanical properties (injection molded)	Value		
Tensile modulus	2350	MPa	ISO 527-1/-2
Yield stress	56.4	MPa	ISO 527-1/-2
Yield strain	4	%	ISO 527-1/-2
Stress at break	26.5	MPa	ISO 527-1/-2
Strain at break	>50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N	kJ/m ²	ISO 179/1eU
Mechanical Properties (3D printed)	Value		
Tensile modulus (X-X direction, flat)	2570	MPa	Sim. to ISO 527-1/-2
Tensile modulus (Z-X direction, up-right)	3040	MPa	Sim. to ISO 527-1/-2
Stress at yield (X-X direction, flat)	60	MPa	Sim. to ISO 527-1/-2
Strain at yield (X-X direction, flat)	3.3	%	Sim. to ISO 527-1/-2
Stress at break (X-X direction, flat)	40	MPa	Sim. to ISO 527-1/-2

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Arnite[®] ID3040

Print Date: 2021-02-24

Properties	Typical Data	Unit	Test Method
Stress at break (Z-X direction, up-right)	45	MPa	Sim. to ISO 527-1/-2
Strain at break (X-X direction, flat)	150	%	Sim. to ISO 527-1/-2
Strain at break (Z-X direction, up-right)	2.2	%	Sim. to ISO 527-1/-2
Thermal properties			
	Value		
Melting temperature (10°C/min)	255	°C	ISO 11357-1/-3
Thermal properties (injection molded)			
	Value		
Temp. of deflection under load (1.80 MPa)	65	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	71	°C	ISO 75-1/-2
Other properties			
	Value		
Water absorption	0.9	%	Sim. to ISO 62
Humidity absorption	0.5	%	Sim. to ISO 62
Density	1340	kg/m ³	ISO 1183

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