SHENZHEN HELLO 3D TECHNOLOGY CO.,LTD.
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3D PRINTING FILAMENT SPECIFICATION

PETG

Properties	Test	Method Unit	Values
Physical Properties			
Specific	Gravity ASTM D792	-	1.27
Mold shrinkage	ASTM D955	%	0.3 - 0.6
Rockwell Hardness	ASTM D785	R-Scale	110
Water Absorption	ASTM D570	%	0.2
Mechanical Properties			
Tensile Strength at Yield	ASTM D638	MPa (kgf/cm²)	50 (510)
Tensile Strength at Break	ASTM D638	MPa (kgf/cm²)	28 (286)
Elongation at Break	ASTM D638	%	140
Flexural Strength at Yield	ASTM D790	MPa (kgf/cm²)	73 (745)
Flexural Modulus	ASTM D790	MPa (kgf/cm²)	2100
Izod Impact Strength	ASTM D256 (Notched, @23℃)	J/m (kgf-cm/cm)	100
Thermal Properties			
Heat Distortion Temperature	ASTM D648 (@ 0.455 MPa)	℃(℉)	70 (158)
Vicat Softening Temperature	ASTM D1525 (@ 1 kg load)	℃(℉)	83 (181)
Glass Transition Temp.(Tg)	DSC method	℃(℉)	180 (176)
Optical Properties			
Haze	ASTM D1003	%	< 1
Total Transmittance	ASTM D1003	M%	91
Electrical Properties			
Dielectric Strength	ASTM D149 (short-time, 500V/s	kV/mm	15
Volume Resistivity	ASTM D257	Ω·cm	10
Dielectric Constant	ASTM D150 (@ 1MHz)	-	2.5
Dissipation Factor	ASTM D150 (@ 1MHz)	-	0.023