Technical Data sheet
PCTG by RE3D

OVERVIEW

NAME	PCTG by RE3D
DESCRIPTION	• DESIGNED FOR 3D PRINTING USING FDM/FFF TECHNOLOGY • MANUFACTURED FROM A HIGH QUALITY RESIN • WOUND ON A SPOOL, PACKED IN A VACCUUM SEALED BAG
APPLICATIONS	• PROTOTYPING AND FUNCTIONAL MODELS • HOUSEHOLD APPLIANCES • END-USE PARTS • DECORATIONS AND JEWELRY
NOT SUITABLE FOR	• APPLICATIONS WHERE TEMPERATURE EXCEEDS 76C • APPLICATIONS IN CONTACT WITH FOOD AND BEVERAGES

TECHNICAL INFORMATION

DIAMETER	1.75mm OR 2.85mm ±0.05mm
AVERAGE ROUNDNESS	0.01mm
FILAMENT WEIGHT	1kg
FILAMENT LENGTH	~330m
PRINT TEMPERATURE	240-265 C
BED TEMPERATURE	65-110 C

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PHYSICAL PROPERTIES

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD
SPECIFIC DENSITY	g/cm3	1.23	ISO 1183
GLASS TRANSITION TEMPERATURE	C	88	DSC
PEAK MELTING TEMPERATURE	C	-	DSC
HEAT DISTORTION TEMPERATURE (0.45MPa)	C	76	ISO 75

MECHANICAL PROPERTIES

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD
TENSILE STRENGTH AT YIELD	MPa	43	ISO 527
TENSILE STRENGTH AT BREAK	MPa	45	ISO 527
TENSILE MODULUS	GPa	2	ISO 527
TENSILE ELONGATION	%	4	ISO 527
FLEXURAL STRENGTH	MPa	60	ISO 178
FLEXURAL MODULUS	GPa	1.6	ISO 178
NOTCHED IZOD IMPACT	kJ/M	93	ISO 180

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