TECHNICAL DATA SHEET
DURAPRO PC-PBT

1. DESCRIPTION

PC-PBT is a blend of two materials: polycarbonate (PC) and polybutylene terephthalate (PBT). It combines the strengths of both polymers, making it a versatile material for industrial applications. It offers exceptional mechanical properties combined with outstanding heat resistance and resistance to degrees below zero. Thanks to its excellent chemical resistance and ease of printing, it is the optimal choice for demanding 3D printing projects.

2. FEATURES

Excellent mechanical properties
High thermal resistance (VICAT A 126°C)

Good toughness even at low temperatures (at -20°C to -30°C)
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3. PROPERTIES

TEST	METHOD	UNIT	VALUE
Melt Volume-Flow Rate (MVR)	ISO 1133	cm³/10 min	18
Tensile Modulus	ISO 527-1,-2	MPa	2200
Yield Strength	ISO 527-1,-2	MPa	60
Yield Strain	ISO 527-1,-2	%	5
Nominal Elongation at Break	ISO 527-1,-2	%	> 50
Tensile Strength at Break	ISO 527-1,-2	MPa	50
Flexural Modulus	ISO 178	MPa	2150
Outer Fiber Strain at Maximum Force	ISO 178		

*Temperature resistance tested at a minimum wall thickness of 4 mm.
TEST
METHOD
UNIT
VALUE

Recommended settings for printers with a 0.4mm Nozzle. Max. 50% layerheight.
Optimal print settings may vary between different printers and also depend on environmental factors.
PRINT SETTINGS

4. CERTIFICATIONS & ADDITIONAL INFORMATION



Certifications depend on colors in final product. More info in the additional information sheet.

5. STORAGE AND SHELF LIFE

Store in a dry room at room temperature (18-27°C / 65-80°F). Keep out of direct heat and sunlight.
When stored correctly, this material has a shelf life of 2 years.
Additional info in our regulatory, additional information and chemical resistance data sheets.