

Preliminary

Technical Data Sheet

Material PP (Polypropylene)

General Properties	Test method	Typical values
Bulk Density / kg/m ³	ISO 1068-1975	330
Printed Part Density / kg/m ³	ISO 61	890
Mean particle size d50 / μm	ISO 13320	67-77
Melting Temperature / °C	ISO 11357-3 (20 K/min)	139
Crystallization Temperature / °C		
Melt Volume Flow Rate / cm ³ /10min		

Mechanical Properties	Test method	Typical values x-direction	Typical values z-direction
Tensile Strength / MPa	ISO 527-2:93-1B	25	
Tensile Modulus / MPa		1400	
Tensile Elongation at break / %		50	
Flexural Strength / MPa	DIN EN ISO 178		
Flexural Modulus / MPa		1150	
Flexural Elongation at break / %			
Charpy Impact Strength (notched) / kJ/m ²	ISO 179-1	22	
Charpy Impact Strength (unnotched) / kJ/m ²			
Izod Impact Strength (notched) / kJ/m ²	ISO 180		
Izod Impact Strength (unnotched) / kJ/m ²			

Thermal Properties	Test method	Typical values
HDT/A (1.8 MPa) / °C	ISO 75-2	56
HDT/B (0.45 MPa) / °C		71
Vicat/A (10 N) / °C	ISO 306	
Vicat/B (50 N) / °C		