

**PB70 GR50 NL**

PBT-GF50

Melos GmbH

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	15000	MPa	ISO 527
Stress at break	155	MPa	ISO 527
Strain at break	1.5	%	ISO 527
Flexural modulus, 23°C	12500	MPa	ISO 178
Charpy impact strength, +23°C	65	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	55	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	13	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	11	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	12	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	10	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	225	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	210	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	220	°C	ISO 75-1/-2
Vicat softening temperature, B	215	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.2	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.6	mm	-
<b>Electrical properties</b>			
<b>ISO Data</b>			
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	1E14	Ohm	IEC 62631-3-2
Comparative tracking index	500	-	IEC 60112
<b>Other properties</b>			
Water absorption	0.25	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1700	kg/m <sup>3</sup>	ISO 1183

**Characteristics****Special Characteristics**

High impact or impact modified, U.V. stabilized or stable to weather

**Features**

Thermal Stability

**Chemical Resistance**

General Chemical Resistance

**Applications**

Electrical and Electronical

**Regional Availability**

Europe