

NB40 NL FA 50

PA6

Melos GmbH

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.1	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3500	MPa	ISO 527
Yield stress	70	MPa	ISO 527
Charpy impact strength, +23°C	50	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	4	kJ/m ²	ISO 180/1A
Izod notched impact strength	3	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	223	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	75	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	190	°C	ISO 75-1/-2
Vicat softening temperature, B	205	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.2	mm	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.6	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	1E13	Ohm	IEC 62631-3-2
Comparative tracking index	600	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	8	%	Sim. to ISO 62
Humidity absorption	2.5	%	Sim. to ISO 62
Density	1190	kg/m ³	ISO 1183

Characteristics**Special Characteristics**

Flame retardant

Features

Thermal Stability

Chemical Resistance

General Chemical Resistance

Applications

Automotive, Electrical and Electronical

Regional Availability

Europe