

Product Texts

Polyamide 66 Black , 40% mineral fiber filled, industrial quality compound, also available Heat Stabilized (H) and UV Stabilized (UV).

Processing/Physical Characteristics

	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Yield stress	65	MPa	ISO 527
Stress at break	60	MPa	ISO 527
Strain at break	5	%	ISO 527
Flexural modulus, 23°C	4800	MPa	ISO 178
Charpy impact strength, +23°C	55	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5.5	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	6	kJ/m ²	ISO 180/1A

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	110 ^[ann.]	°C	ISO 75-1/-2
Vicat softening temperature, B	240	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB 1.6	class mm	IEC 60695-11-10 -
Burning behav. at thickness h Thickness tested	HB 3.2	class mm	IEC 60695-11-10 -
Burning rate, FMVSS, Thickness 1 mm	100	mm/min	ISO 3795 (FMVSS 302)
Glow Wire Flammability Index (GWFI)	650	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-

ann.: annealed

Other properties

	Value	Unit	Test Standard
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1480	kg/m ³	ISO 1183

Processing Recommendation Injection Molding

	Value	Unit	Test Standard
Pre-drying - Temperature	85	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.12	%	-
Melt temperature	270 - 290	°C	-
Mold temperature	70 - 90	°C	-
Zone 1	250 - 260	°C	-
Zone 2	260 - 270	°C	-
Zone 3	280 - 290	°C	-
Nozzle temperature	280 - 285	°C	-
Screw speed	50 - 80	rpm	-
Back pressure	0.4 - 0.8	MPa	-
Holding pressure	6 - 8	MPa	-

Characteristics**Processing**

Injection Molding

Delivery form

Black

Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

Europe