

Product Description

Heat Stabilized, UV Resistant, Hydrolysis Resistant, Polyamide 66

General Considerations

Resin ID (ISO 1043)	· >PA66 GF50<	
Additive	· UV Resistant	· Heat Stabilizer
Processing	· Injection Molding	· Extrusion
Color	· Black	

- The information below is for informational purposes only and should not be adopted as specification limits.

Physical	Value	Unit	Method
Density / Specific Gravity	1,56	g/cm ³	ISO 1183

Mechanical	Dry	50%RH	Unit	Method
Yield Stress	250	200	MPa	ISO 527-1-2
Yield Strain	2,5	3,4	%	ISO 527-1-2
Tensile Modulus	16800	12900	MPa	ISO 527-1-2
Flexural Strength	314	-	MPa	ISO 178
Flexural Modulus	14000	-	MPa	ISO 178
Stress at Break	260	205	MPa	ISO 527-1-1
Strain at Break	2,7	3,5	%	ISO 527-1-2
Charpy Impact Strength			kJ/m ²	ISO 179/1eU
-30°C	95	95		
23°C	110	115		
Charpy Notched Impact Strength			kJ/m ²	ISO 179/1eA
-30°C	16	15		
23°C	17	19		
Izod Impact Strength			kJ/m ²	ISO 180/1U
-30°C	15	15		
Izod Notched Impact Strength			kJ/m ²	ISO 180/1A
23°C	18	20		

Thermal	Value	Unit	Method
Melting Point	250 to 265	°C	ISO 3146/A
Heat Deflection Temperature		°C	ISO 75-1-2
0,45 MPa	262		
1,80 MPa	257		
Vicat Softening Temperature		°C	ISO 306
50 N ; 50°C/h	254		
Coefficient of Linear Thermal Expansion		E-4/°C	ASTM E 831
Parallel ; (23 to 55 °C)	0,14		
Transverse ; (23 to 55 °C)	0,72		
Flammability		--	UL 94
1,6 mm	HB		

Process	Value	Unit	Method
Molding Process Temperature	285 to 295	°C	--
Mold Temperature	100 to 110	°C	--
Drying	90/4 to 6	°C/Hours	--

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