

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	
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
Molding Shrinkage		%	ISO 294-4
Across Flow	0,8		
Flow	0,8		
Humidity Absorption		%	ISO 62
Saturation, 23°C	4,1		
Equilibrium, 23°C	1,1		

Mechanical	Value (Dry)	Value (Cond.)	Unit	Method
Tensile stress at break (23°C)	230	180	MPa	ISO 527-1-2
Tensile stress at break (80°C)	150	113	MPa	ISO 527-1-2
Tensile strain at break (23°C)	2,5	3,5	%	ISO 527-1-2
Tensile strain at break (80°C)	5,2	4,9	%	ISO 527-1-2
Flexural Strength	320	280	MPa	ISO 178
Flexural Modulus (23°C)	14800	12000	MPa	ISO 178
Izod Notched Impact Strength (23°C)	16	21	kJ/m ²	ISO 180/1A
Charpy Notched Impact Strength (23°C)	18	25	kJ/m ²	ISO 179
Charpy Notched Impact Strength (-30°C)	13	-	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	95	100	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (-30°C)	85	-	kJ/m ²	ISO 179

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		

Process	Value	Unit	Method
Molding Process Temperature	270 to 290	°C	--
Mold Temperature	100 to 110	°C	--
Drying	90/4	°C/Hours	--

Data contained in this Data Sheet have been obtained in laboratory and reflect the average number of batches produced. This information is current as of the date on which it was authorized to print this. The Petropol reserves the right to alter designs, specifications and information on its products at any time or discontinue them, regardless of any notice or statement without incurring liability of any kind.