

Product Description

Hydrolysis Resistant, Heat Stabilized, 40% Glass Reinforced, Polyamide 6

General Considerations

Resin ID (ISO 1043)	• PA6-GF40	
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight	
Additive	• Heat Stabilized	• Hydrolysis Resistant
Processing	• Injection Molding	• Extrusion
Color	• Black	

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

Physical	Value	Unit	Method
Density	1,45 to 1,46	g/cm ³	ASTM D 792
Ash Content	38 to 42	%	ISO 3451-1/A
Mold Shrinkage	0,1 to 0,5	%	ASTM D 955
Water absorption	6	%	ASTM D 570
Humidity Absorption	1,7	%	ASTM D 570

Mechanical	Dry	50%RH	Unit	Method
Tensile Strength	233	152	MPa	ASTM D 638
Elongation at Break	3	5	%	ASTM D 638
Flexural Modulus	11650	8550	MPa	ASTM D 790
Izod Notched Impact Strength				ASTM D 256
23°C	14	19	J/m	
-30 °C	8	--	J/m	
Unnotched Izod Impact Strength				ASTM D 256
23°C	77	79	J/m	
-30 °C	71	75	J/m	

Thermal	Value	Unit	Method
Heat Deflection Temperature		°C	ASTM D 648
1,82 MPa	167		
0,45 MPa	210		
Melting Point	210 to 225	°C	ISO 3146 A

Process		Unit	Method
Molding Process Temperature	260 to 280	°C	--
Mold Temperature	80 to 100	°C	--
Drying	90/4	°C/Hours	--

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