

Technical Datasheet

Ver.2018

Material Type PA6	Grade Name D122-G50
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Features	<ul style="list-style-type: none"> • High Rigidity • •
Material Standard	
Availability	North America/Asia-Pacific
Process Method	Injection Molding
Appearance	Colors Optional
Applications	Automotive Interior and Exteriors , Electrical/Electronic Applications,Electric

General Properties

No. Properties	Methods	Units	Values	Test Conditions
1 Density	ISO 1183-1	g/cm ³	1.55	
2 Tensile Strength at Max Load	ISO 527-2	MPa	210	5mm/min
3 Impact Strength	ISO 179-1	kJ/m ²	95	23°C
4 Filler Content	ISO 3451-1	%	50	
5 Notched Impact Strength	ISO 179-1	kJ/m ²	18	23°C
6 Notched Impact Strength	ISO 179-1	kJ/m ²	13	-30°C
7 Elongation at Break	ISO 527-2	%	2.5	5mm/min
8 Tensile Modulus	ISO 527-2	MPa	15000	1mm/min
9 Flexural Strength	ISO 178	MPa	330	2mm/min
10 Flexural Modulus	ISO 178	MPa	13500	2mm/min
11 Heat Deflection Temp.	ISO 75-2	°C	210	1.8MPa,120°C/h
12 Heat Deflection Temp.	ISO 75-2	°C	220	0.45MPa,120°C/h
13 Melt Temp.	ISO 11357-3	°C	222	

Processing Conditions

Drying Cond.	• 110-130°C * 4-6h	Moisture Control • <0.1
Injection Temp.	• 230-260 °C(F), 260-280 °C(M), 230-250 °C(B)	
Injection Speed	• Medium to High	
Injection Pressure	• 40-110 MPa	
Back Pressure	• 0-5 MPa	
Mold Temp.	• 100-130 °C	

Note : The technical data above are authentic and reliable for reference. These values cannot be defined as the minimal performance value.