

Technical Datasheet

Material Type	PA66	Trademark	Ecolon®	Grade Name	NY1992-BK1
Feature	<ul style="list-style-type: none"> Unfilled Nylon Resin (PA66) 				
Material Standard	<ul style="list-style-type: none"> XXXXXX 				
Availability	<ul style="list-style-type: none"> Asian-Pacific, America 				
Processing method	<ul style="list-style-type: none"> Injection Molding 				
Appearance	<ul style="list-style-type: none"> Color is Optional 				
Applications	<ul style="list-style-type: none"> Automotive and Engineering parts 				

General Properties

No.	Properties	Unit	Typical Value	Method	Test condition
1	Density	g/mL	1.13	ISO 1183	23 °C
2	Melt Point	°C	260	ISO 3146	DSC
3	Tensile Strength	MPa	60	ISO 527	50 mm/mm
4	Tensile Elongation	%	7.5	ISO 527	50 mm/mm
5	Flexural Strength	MPa	93	ISO 178	2 mm/mm
6	Flexural Modulus	MPa	2,300	ISO 178	2 mm/mm
7	Charpy Impact notched	kJ/m ²	3.6	ISO 180	23 °C
8	Heat Deflection Temperature	°C	50	ISO 75	1.8 MPa
9	Material Shrinkage	%	1.9-2.2/2.6-3.1 (flow/cross)	ISO 294	23 °C, 48h

Processing Conditions

Drying condition	80 °C, 2-4 h
Molding Temp.	260 - 290 °C (F), 260 - 290 °C (M), 270 - 290 °C (B)
Melt Temp.	270 - 290 °C
Mold Temp.	70 - 90 °C
Screw Speed	30 - 120 rpm
Injection Pressure	30 - 140 MPa
Back Pressure	0.30 – 1.40 MPa

Notes: This technical data in the product brochures are typical test results for reference, and should not be defined as minimum value.