

Technical Datasheet

Material Type Homopolymer	Trademark Ecolene™	Grade Name PP8004-BK1
Feature	<ul style="list-style-type: none"> • 20% Glass-Reinforced Polypropylene Resin (Homopolymer) 	
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	Filler Content	%	20	ISO 3451-1, -4	
2	Density	g/mL	1.08	ISO 1183	23 °C
3	Melt Point	°C	160	ISO 3146	DSC
4	Tensile Strength	MPa	61	ISO 527	5 mm/mm
5	Tensile Elongation	%	3.5	ISO 527	5 mm/mm
6	Flexural Strength	MPa	96	ISO 178	2 mm/mm
7	Flexural Modulus	MPa	3,700	ISO 178	2 mm/mm
8	Charpy Impact notched	kJ/m ²	6.4	ISO 180	23 °C
9	Heat Deflection Temperature	°C	132	ISO 75	1.8 MPa

Processing Conditions

Drying condition	70 °C, 1-3 h
Molding Temp.	220 - 250 °C (F), 220 - 240 °C (M), 220 - 240 °C (B)
Mold Temp.	30 - 70 °C
Screw Speed	30 - 100 rpm
Injection Pressure	70 - 100 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.