

# MAJORIS BG204 - 8229

Polypropylene

AD majoris

## Message:

BG204 - 8229 is a 20% chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding.

The product is available in natural, but other colours can be provided on request.

BG204 - 8229 has been developed especially for demanding applications in automotive industry.

BG204 - 8229 has high rigidity and impact strength, very good long term heat resistancy, good dimensional stability and good creep resistancy also at high temperatures.

## APPLICATIONS

Product requiring very high overall mechanical performance such as:

Air filter cases

Lamp housings

Fans and shrouds

Miscellaneous technical items

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Rigidity, high		
	Chemical coupling		
	Impact resistance, high		
	Recyclable materials		
	Good creep resistance		
	Heat resistance, high		
Uses	Thermal Stability		
	Filter		
	Application in Automobile Field		
Appearance	Shell		
	Available colors		
Forms	Natural color		
	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	g/10 min	ISO 1133
Molding Shrinkage	0.70	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	101	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4450	MPa	ISO 527-2/1
Tensile Stress (Yield)	75.0	MPa	ISO 527-2/50
Tensile Strain (Break)	4.0	%	ISO 527-2/50
Flexural Modulus	4600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	41	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	145	°C	ISO 75-2/B
1.8 MPa, not annealed	135	°C	ISO 75-2/A
Vicat Softening Temperature			
--	163	°C	ISO 306/A
--	128	°C	ISO 306/B
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Fogging			DIN 75201
100°C/16h	1.0	mg	DIN 75201
100°C/3h	98	%	DIN 75201
Emission	15.0	µgC/g	VDA 277
Injection	Nominal Value	Unit	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			

Holding pressure: 50 to 70% of the injection pressure

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

