

# MAJORIS GFRH310 - 8229

Polypropylene

AD majoris

## Message:

MAJORIS GFRH310 - 8229 is a special long glass fibre reinforced polypropylene compound halogen flame retardant UL 94 V2 classification, for injection moulding and extrusion. The long glass fibres, chemically coupled to the polypropylene matrix, are providing with outstanding mechanical properties. MAJORIS GFRH310 - 8229 is available both in black (MAJORIS GFRH310 - 8229) and natural (MAJORIS GFRH310). Other colours can be provided on request.

## APPLICATIONS

MAJORIS GFRH310 - 8229 is intended for injection moulding of highly demanding technical applications. The excellent properties of MAJORIS GFRH310 - 8229 make it suitable for:

Electrical components, structural furniture parts, load bearing, demanding components for various engineering sectors.

MAJORIS GFRH310 - 8229 can, in many of these applications, substitute other engineering plastics or metal alloys.

General Information			
Filler / Reinforcement	Long glass fiber		
Additive	heat stabilizer		
	Flame retardancy		
Features	Chemical coupling		
	Recyclable materials		
	Halogenated		
	Heat resistance, high		
	Thermal Stability		
	Flame retardancy		
Uses	Electrical components		
	Furniture		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7100	MPa	ISO 527-2/1
Tensile Stress (Break)	90.0	MPa	ISO 527-2/50

Tensile Strain (Break)	2.0	%	ISO 527-2/50
Flexural Modulus	6800	MPa	ISO 178
Flexural Stress	130	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)	36	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	150	°C	ISO 75-2/B
1.8 MPa, not annealed	137	°C	ISO 75-2/A
Ball Pressure Test (125°C)	Pass		IEC 60335-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-2		UL 94
1.60 mm	V-2		UL 94
3.20 mm	V-1		UL 94
Glow Wire Flammability Index (1.00 mm)	850	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Rear Temperature	230 - 250	°C	
Processing (Melt) Temp	250 - 270	°C	
Mold Temperature	80.0 - 100	°C	
Injection Pressure	30.0 - 60.0	MPa	
Injection Rate	Slow		
Screw Speed	30 - 150	rpm	
Injection Velocity	20 - 30	mm/sec	
Injection instructions			

Holding pressure: 50 to 70% of the injection pressureBack pressure: as low as possible, 0 to 10%

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#### Recommended distributors for this material

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