MAJORIS GFRH300

Polypropylene

AD majoris

Message:

MAJORIS GFRH300 is a special long glass fibre reinforced polypropylene compound halogen flame retardant UL 94 VO classification, for injection moulding and extrusion. The long glass fibres, chemically coupled to the polypropylene matrix, are providing with outstanding mechanical properties.
MAJORIS GFRH300 is available both in natural (MAJORIS GFRH300) and black (MAJORIS GFRH300-8229). Other colours can be provided on request.
APPLICATIONS
MAJORIS GFRH300 is intended for injection moulding of highly demanding technical applications. The excellent properties of MAJORIS GFRH300 make it suitable for:
Electrical components, structural furniture parts, load bearing, demanding components for various engineering sectors.
MAJORIS GFRH300 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	1.43	g/cm³	ISO 1183
Molding Shrinkage	0.50	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9000	MPa	ISO 527-2/1
Tensile Stress (Break)	90.0	MPa	ISO 527-2/50

Tensile Strain (Break)	3.0	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	12	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	150	°C	ISO 75-2/A
Ball Pressure Test (130°C)	Pass		IEC 60335-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.800 mm	V-0		UL 94
1.60 mm	V-0		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	750	°C	IEC 60695-2-13
2.00 mm	775	°C	IEC 60695-2-13
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%

Recommended distributors for this material

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