

MAJORIS EW251 - 7818/5

Polypropylene

AD majoris

Message:

EW251 - 7818/5 is a 25% mineral reinforced polypropylene compound intended for injection moulding.

The product is available in both black (EW251 - 8229) and natural (EW251) but other colours can be provided on request.

EW251 - 7818/5 has been developed especially for the automotive applications, to be used in interior parts requiring excellent scratch resistance and high heat stabilised.

APPLICATIONS

Products has an excellent balance between the impact strength and stiffness can suitably be made from EW251 - 7818/5.

Dashboard

Door panels and pockets

Consoles

General Information			
Filler / Reinforcement	Mineral filler, 25% filler by weight		
Additive	heat stabilizer		
Features	Recyclable materials		
	Scratch resistance		
	Heat resistance, high		
	Thermal Stability		
Uses	Car interior parts		
	Car interior equipment		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage	0.80	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2/1
Tensile Stress (Yield)	23.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/50
Flexural Modulus ¹	3000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	2.5	kJ/m ²	ISO 179/1eA
23°C	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact (-40°C)	3.5	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	117	°C	ISO 75-2/B
1.8 MPa, not annealed	61.0	°C	ISO 75-2/A
Vicat Softening Temperature	144	°C	ISO 306/A
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	220 - 270	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Moderate		
Injection instructions			
Holding pressure: 50 to 70% of the injection pressure			
NOTE			
1.	2.0 mm/min		

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