

MAJORIS EE107 - 7803

Polypropylene

AD majoris

Message:

EE107 - 7803 is a 10% mineral filled polypropylene compound intended for injection moulding.

EE107 - 7803 has been developed especially for the automotive parts, requiring good impact strength/stiffness, very good scratch resistance and UV stabilised.

The product is available in black (EE107 - 8229) and natural (EE107) but other colours can be provided on request.

APPLICATIONS

Automotive parts

General Information			
Filler / Reinforcement	Mineral filler, 10% filler by weight		
Additive	UV stabilizer		
Features	Rigid, good		
	Impact resistance, good		
	Good UV resistance		
	Recyclable materials		
	Scratch resistance		
Uses	Application in Automobile Field		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	12	g/10 min	ISO 1133
230°C/5.0 kg	45	g/10 min	ISO 1133
Molding Shrinkage	1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1850	MPa	ISO 527-2/1
Tensile Stress (Yield)	21.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	6.0	%	ISO 527-2/50
Flexural Modulus ¹	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.5	kJ/m ²	ISO 179/1eA
23°C	20	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	60	kJ/m ²	ISO 179/1eU
23°C	160	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
0°C	5.0	kJ/m ²	ISO 180/1A
23°C	25	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	100	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	136	°C	ISO 306/A
--	54.0	°C	ISO 306/B
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 - 260	°C	
Mold Temperature	30.0 - 50.0	°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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