

MAJORIS EW305 - 7818

Polypropylene

AD majoris

Message:

EW305 - 7818 is a 30% mineral reinforced polypropylene compound intended for injection moulding.
The product is available in both black (EW305 - 8229) and natural (EW305) but other colours can be provided on request.
EW305 - 7818 has been developed especially for the automotive applications, to be used in interior parts requiring excellent scratch resistance.

APPLICATIONS

Products has an excellent balance between the impact strength and stiffness can suitably be made from EW305 - 7818.

Dashboard

Door panels and pockets

Consoles

General Information			
Filler / Reinforcement	Mineral filler, 30% filler by weight		
Features	Recyclable materials		
	Scratch resistance		
Uses	Application in Automobile Field		
	Car interior parts		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage	0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	29.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/50
Flexural Modulus ¹	3300	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
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	120	°C	ISO 75-2/B
1.8 MPa, not annealed	63.0	°C	ISO 75-2/A
Vicat Softening Temperature	148	°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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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



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