

Daplen™ EE103AEB

Compounded Polypropylene

Borealis AG

Message:

Daplen EE103AEB is a 10% mineral filled elastomer modified polypropylene compound intended for injection moulding.

General Information			
Filler / Reinforcement	Mineral filler, 10% filler by weight		
Features	Rigid, good		
	Impact resistance, good		
	Recyclable materials		
	High liquidity		
Uses	Car anti-collision bar		
	Application in Automobile Field		
	Car exterior decoration		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.980	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	20.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.5	%	ISO 527-2/50
Flexural Modulus ¹	1200	MPa	ISO 178
Flexural Stress	23.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m ²	ISO 179/1eA
23°C	18	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ISO 180/1A
-30°C	6.0	kJ/m ²	ISO 180/1A
23°C	40	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	50.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	49.0	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flammability (1.00 mm)		mm/min	ISO 3795
Injection	Nominal Value	Unit	

Mold Temperature	30.0 - 50.0	°C
Holding Pressure	30.0 - 60.0	MPa
Injection instructions		
Feeding Temperature: 40 - 80 °C Mass Temperature: 220 - 260 °C Back Pressure: Low to Medium Screw Speed: Low to Medium Flow Front Speed: 100 - 200 mm/s		
NOTE		
1.	2.0 mm/min	

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