

Daplen™ EE103AE

Compounded Polypropylene

Borealis AG

Message:

Daplen EE103AE is a 10% mineral filled elastomer modified polypropylene compound intended for injection moulding. This material has an excellent balance between impact strength and stiffness, gives a good surface quality and is easy to process.

General Information			
Filler / Reinforcement	Mineral filler, 10% filler by weight		
Additive	UV stabilizer		
Features	Rigid, good		
	Impact resistance, good		
	Good UV resistance		
	Recyclable materials		
	High liquidity		
Uses	Car anti-collision bar		
	Application in Automobile Field		
	Automotive exterior parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.950	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.2	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	45.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.00 mm)	1400	MPa	ISO 527-2
Tensile Stress (Yield)	19.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.5	%	ISO 527-2/50
Flexural Modulus ¹	1400	MPa	ISO 178
Flexural Stress	25.0	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
-20°C	7.0	kJ/m ²	ISO 179/1eA
23°C	50	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	220	kJ/m ²	ISO 179/1eU

23°C	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C	6.0	kJ/m ²	ISO 180/1A
23°C	45	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	92.0	°C	ISO 75-2/B
1.8 MPa, not annealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	135	°C	ISO 306/A
--	45.0	°C	ISO 306/B
CLTE - Flow (-30 to 80°C)	7.2E-5	cm/cm/°C	ISO 11359-2
Melt Energy	80.0	kJ/kg	ISO 11357
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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