

Daplen™ EG103AI

Polypropylene

Borealis AG

Message:

Daplen EG103AI is a 15% mineral filled polypropylene compound intended for injection moulding.
This material has an excellent balance between impact strength and stiffness and high melt flow rate.

General Information			
Filler / Reinforcement	Mineral filler, 15% filler by weight		
Features	Rigid, good		
	Impact resistance, good		
	Recyclable materials		
	High liquidity		
Uses	Application in Automobile Field		
	Car interior parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	26	g/10 min	ISO 1133
Molding Shrinkage ¹	0.90	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	49.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1800	MPa	ISO 527-2
Tensile Stress (Yield)	22.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/1
Flexural Modulus ²	1900	MPa	ISO 178
Flexural Stress	31.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.0	kJ/m ²	ISO 179/1eA
23°C	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	60	kJ/m ²	ISO 179/1eU
23°C	150	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C	3.2	kJ/m ²	ISO 180/1A
23°C	11	kJ/m ²	ISO 180/1A

Unnotched Izod Impact Strength			ISO 180/1U
-20°C	30	kJ/m ²	ISO 180/1U
23°C	100	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	105	°C	ISO 75-2/B
1.8 MPa, not annealed	54.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	140	°C	ISO 306/A
--	54.0	°C	ISO 306/B
Flammability	Nominal Value	Unit	Test Method
Atomization-16 h (100°C)		mg	DIN 75201
Emission		µgC/g	VDA 277
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Feeding Temperature: 40 to 80°CBack Pressure: Low to mediumScrew speed: Low to mediumFlow front speed: 100 to 200 m/min			
NOTE			
1.	disk		
2.	2.0 mm/min		

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