

Daplen™ EE188AI

Polypropylene

Borealis AG

Message:

Daplen EE188AI is a 15% mineral filled polypropylene compound intended for injection moulding. This material has an excellent balance between impact strength and stiffness and is easy to process

General Information			
Filler / Reinforcement	Mineral filler, 15% filler by weight		
Features	Rigid, good		
	Impact resistance, good		
	Workability, good		
	Scratch resistance		
Uses	Application in Automobile Field		
	Car interior parts		
	Car interior equipment		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ISO 1133
Molding Shrinkage	1.0	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	50.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1850	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	21.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	4.5	%	ISO 527-2/50
Flexural Modulus ¹ (Injection Molded)	1900	MPa	ISO 178
Flexural Stress (Injection Molded)	30.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C, injection molding	4.5	kJ/m ²	ISO 179/1eA
23°C, injection molding	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C, injection molding	65	kJ/m ²	ISO 179/1eU
23°C, injection molding	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/1A

-20°C, injection molding	4.0	kJ/m ²	ISO 180/1A
23°C, injection molding	24	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-20°C, injection molding	45	kJ/m ²	ISO 180/1U
23°C, injection molding	55	kJ/m ²	ISO 180/1U
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	53.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	55.0	°C	ISO 306/A50
--	136	°C	ISO 306/B50
Melt Energy	76.1	kJ/kg	ISO 11357
Atomization-16 hrs (100°C)	1.4	mg	DIN 75201
Emission		µgC/g	VDA 277
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Hopper Temperature	40.0 - 80.0	°C	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Back pressure: Low to mediumScrew speed: Low to mediumFlow front speed: 100 - 200 mm/s			
NOTE			
1.	2.0 mm/min		

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Recommended distributors for this material

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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