

Daplen™ EE158AI

Compounded Polypropylene

Borealis AG

Message:

Daplen EE158AI is a 13% 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, 13% filler by weight		
Features	Good dimensional stability		
	Scratch resistance		
Uses	Application in Automobile Field		
	Car interior parts		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.980	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ISO 1133
Shrinkage ¹			
Anisotropic	0.090	%	
Isotropic	0.90	%	Internal method
Atomization-16 h(100°C)		mg	DIN 75201
Emission		µgC/g	VDA 277
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2/1
Tensile Stress (Yield)	23.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	6.0	%	ISO 527-2/50
Flexural Modulus ²	1750	MPa	ISO 178
Flexural Stress	30.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	5.0	kJ/m ²	ISO 179/1eA
23°C	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	60	kJ/m ²	ISO 179/1eU
23°C	170	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, not annealed	95.0	°C	ISO 75-2/B
1.8 MPa, not annealed	54.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	131	°C	ISO 306/A
--	55.0	°C	ISO 306/B

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 to 200 mm/s

NOTE

1. radial disk
2. 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

