

Daplen™ EG250AI

Compounded Polypropylene

Borealis AG

Message:

Daplen EG250AI is a 20% mineral reinforced impact modified polypropylene compound suitable 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, 20% filler by weight		
Additive	Impact modifier		
Features	Impact modification		
	Rigid, good		
	High scratch resistance		
	Impact resistance, good		
	Workability, good		
Uses	Excellent appearance		
	Application in Automobile Field		
	Car interior parts		
	Car dashboard		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ISO 1133
Shrinkage ¹			Internal method
Anisotropic	0.10	%	Internal method
Isotropic	0.70	%	Internal method
Atomization-16 hr(100°C)		mg	DIN 75201
Emission	50.0	µgC/g	VDA 277
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	35.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.75	MPa	ISO 527-2/1
Tensile Stress (Yield)	21.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.2	%	ISO 527-2/50
Flexural Modulus ²	1.80	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.5	kJ/m ²	ISO 179/1eA

23°C	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	70	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	93.0	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	126	°C	ISO 306/A
--	49.0	°C	ISO 306/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	3.00 - 6.00	MPa	
Injection instructions			
Feeding Temperature: 40 to 80°C Back Pressure: Low to Medium Screw Speed: Low to Medium Flow Front Speed: 100 to 200 m/min			
NOTE			
1.	Radial Disk		
2.	2.0 mm/min		

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