

Daplen™ EF209AE

Polypropylene

Borealis AG

Message:

Daplen EF209AE is a 20% mineral filled elastomer modified polypropylene compound intended for injection moulding. This material has excellent balanced mechanical properties, gives a good surface quality and is easy to process.

Applications

Daplen EF209AE has been developed especially for the automotive industry.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Recyclable materials		
	Sprayable		
Uses	Car anti-collision bar		
	Automotive exterior parts		
	Car exterior decoration		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	22	g/10 min	ISO 1133
Molding Shrinkage ¹	0.65	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1600	MPa	ISO 527-2/1
Tensile Stress (Yield)	17.0	MPa	ISO 527-2
Tensile Strain (Break)	300	%	ISO 527-2
Flexural Modulus ²	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	5.5	kJ/m ²	ISO 179
23°C	60	kJ/m ²	ISO 179
Notched Izod Impact			ISO 180/1A
-30°C	5.0	kJ/m ²	ISO 180/1A
23°C	50	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	120	°C	ISO 306/A
CLTE - Flow ³	4.5E-5	cm/cm/°C	Internal method
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 m/min

NOTE

1. disk
2. 2.0 mm/min
3. -30°C/80°C

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