

Daplen™ EF261AI

Polypropylene

Borealis AG

Message:

Daplen EF261AI is a 20 % mineral filled polypropylene compound intended for injection moulding.
This material has an excellent balance between impact strength and stiffness and is easy to process.

Applications

Daplen EF261AI has been developed especially for the car industry to be used in automotive interior parts.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	High scratch resistance		
	Recyclable materials		
Uses	Car interior parts		
	Car interior equipment		
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/21.6 kg)	14	g/10 min	ISO 1133
Molding Shrinkage ¹	0.60	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	32.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2/1
Tensile Stress			
Yield	18.0	MPa	ISO 527-2/50
Fracture	12.0	MPa	ISO 527-2
Tensile Strain			
Yield	5.0	%	ISO 527-2/50
Fracture	110	%	ISO 527-2
Flexural Modulus ²	1800	MPa	ISO 178
Flexural Stress			ISO 178
3.5% strain	23.0	MPa	ISO 178
--	24.0	MPa	ISO 178
Flexural Strain	4.9	%	ISO 178
Atomization-16 h (100°C)		mg	DIN 75201
Emission		µgC/g	VDA 277
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179
-20°C	4.6	kJ/m ²	ISO 179
23°C	43	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-20°C	65	kJ/m ²	ISO 179
23°C	No Break		ISO 179
Notched Izod Impact			ISO 180/1A
-20°C	4.5	kJ/m ²	ISO 180/1A
23°C	38	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			
-20°C	42	kJ/m ²	ISO 180
23°C	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	94.0	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	118	°C	ISO 306/A50
--	42.0	°C	ISO 306/B50
CLTE - Flow ³	4.9E-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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

