

Daplen™ ED213AE

Polypropylene

Borealis AG

Message:

Daplen ED213AE is a 20% mineral filled elastomer modified polypropylene compound intended for injection moulding. This material has excellent balanced mechanical properties and gives a good surface quality.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Sprayable		
	Excellent appearance		
Uses	Application in Automobile Field		
	Automotive exterior parts		
	Car exterior decoration		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage ¹	0.60	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/10)	40.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1750	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	17.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	4.0	%	ISO 527-2/50
Flexural Modulus ² (Injection Molded)	1850	MPa	ISO 178
Flexural Stress (Injection Molded)	24.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.5	kJ/m ²	ISO 179/1eA
-20°C	10	kJ/m ²	ISO 179/1eA
23°C	29	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	44	kJ/m ²	ISO 179/1eU
23°C	110	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C	8.0	kJ/m ²	ISO 180/1A

23°C	25	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	102	°C	ISO 75-2/B
1.8 MPa, not annealed	54.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	124	°C	ISO 306/A50
--	40.0	°C	ISO 306/B50
CLTE - Flow (-30 to 80°C)	7.0E-5	cm/cm/°C	Internal method
Melt Energy	56.4	kJ/kg	ISO 11357
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.	disk		
2.	2.0 mm/min		

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