

Daplen™ EG066AI

Compounded Polypropylene

Borealis AG

Message:

Daplen EG066AI is an elastomer modified polypropylene compound intended for injection moulding. This material has an excellent balance between impact strength and stiffness.

General Information			
Additive	UV stabilizer		
Features	Rigid, good		
	High crystallization		
	Impact resistance, good		
	Good UV resistance		
	Recyclable materials		
	High liquidity		
Uses	Application in Automobile Field		
	Car interior parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	22	g/10 min	ISO 1133
Molding Shrinkage	1.5	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	47.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.00 mm)	1050	MPa	ISO 527-2
Tensile Stress (Yield)	20.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.3	%	ISO 527-2/50
Flexural Modulus ¹	1000	MPa	ISO 178
Flexural Stress	25.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.5	kJ/m ²	ISO 179/1eA
-20°C	8.0	kJ/m ²	ISO 179/1eA
23°C	38	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU

Notched Izod Impact			ISO 180/1A
-30°C	6.0	kJ/m ²	ISO 180/1A
-20°C	7.0	kJ/m ²	ISO 180/1A
23°C	38	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-20°C	No Break		ISO 180/1U
23°C	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	81.0	°C	ISO 75-2/B
1.8 MPa, not annealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	142	°C	ISO 306/A
--	54.0	°C	ISO 306/B
Melt Energy	86.0	kJ/kg	ISO 11357
Injection	Nominal Value	Unit	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Feeding Temperature: 40 - 80 °C Mass Temperature: 220 - 260 °C Back Pressure: Low to Medium Screw Speed: Low to Medium Flow Front Speed: 100 - 200 mm/s			
NOTE			
1.	2.0 mm/min		

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