

Daplen™ EH227AE

Compounded Polypropylene

Borealis AG

Message:

Daplen EH227AE is a 20% mineral filled elastomer modified polypropylene compound intended for injection moulding. This material has an excellent balance between impact strength and stiffness, high melt flow rate and gives a good surface quality.

- Applications
- Automotive exterior applications
 - Exterior trims
 - Rocker panels

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Rigid, good		
	Impact resistance, good		
	High liquidity		
	Excellent appearance		
Uses	Automotive exterior parts		
	Car exterior decoration		
	Reinforced panel		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ISO 1133
Molding Shrinkage	0.55	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	26.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1450	MPa	ISO 527-2/1
Tensile Stress (Yield)	16.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Flexural Modulus	1550	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	ISO 179/1eA
-20°C	6.0	kJ/m ²	ISO 179/1eA
23°C	42	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU

-20°C	130	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C	7.0	kJ/m ²	ISO 180/1A
23°C	41	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	86.0	°C	ISO 75-2/B
1.8 MPa, not annealed	47.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	102	°C	ISO 306/A
--	32.0	°C	ISO 306/B
CLTE - Flow (23 to 80°C)	5.6E-4	cm/cm/°C	Internal method
Injection	Nominal Value	Unit	
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 to 200 mm/s

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

