

Daplen™ KB4436

Polypropylene

Borealis AG

Message:

Daplen KB4436 is a 30% mineral filled elastomer modified polypropylene compound intended for injection moulding. This material has an excellent balance between impact strength and stiffness and gives a good surface quality.

General Information			
Filler / Reinforcement	Mineral filler, 30% filler by weight		
Features	Rigid, good		
	Impact resistance, good		
	Recyclable materials		
	High liquidity		
	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	1.12	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ISO 1133
Molding Shrinkage			Internal method
--	0.60	%	Internal method
90°C, 2 hours ¹	0.10	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/10)	26.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2/1
Tensile Stress (Yield)	16.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	4.0	%	ISO 527-2/50
Fracture	> 100	%	ISO 527-2/50
Flexural Modulus ²	2200	MPa	ISO 178
Flexural Stress	23.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.0	kJ/m ²	ISO 179/1eA

-20°C	3.5	kJ/m ²	ISO 179/1eA
23°C	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	45	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C	15	kJ/m ²	ISO 180/1A
23°C	17	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	95.0	°C	ISO 75-2/B
1.8 MPa, not annealed	51.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	116	°C	ISO 306/A50
--	36.0	°C	ISO 306/B50
CLTE - Flow (-30 to 80°C)	3.2E-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 mm/s			
NOTE			
1.	Post shrink		
2.	1.0 mm/min		

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



WECHAT