

Borcom™ WE007AE

Polypropylene

Borealis AG

Message:

Borcom WE007AE is a polypropylene microcomposite intended for injection moulding. The product is available in natural colour. This material has an excellent balance between impact strength and stiffness and gives a good surface quality.

General Information			
Features	Low density		
	Rigid, good		
	Impact resistance, good		
	Recyclable materials		
	Scratch resistance		
	Excellent appearance		
Uses	Car anti-collision bar		
	Automotive exterior parts		
Appearance	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage	0.90	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/10)	36.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	20.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	7.0	%	ISO 527-2/50
Flexural Modulus ¹	1250	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	4.7	kJ/m ²	ISO 179/1eA
-20°C	5.5	kJ/m ²	ISO 179/1eA
23°C	35	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	150	kJ/m ²	ISO 179/1eU
23°C	170	kJ/m ²	ISO 179/1eU

Notched Izod Impact			ISO 180/1A
-20°C	5.0	kJ/m ²	ISO 180/1A
23°C	30	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	89.0	°C	ISO 75-2/B
1.8 MPa, not annealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	134	°C	ISO 306/A50
--	47.0	°C	ISO 306/B50
CLTE - Flow (-30 to 80°C)	6.5E-5	cm/cm/°C	Internal method
Melt Energy	80.0	kJ/kg	ISO 11357
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 - 280	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Feeding Temperature: 40 to 80°C Back pressure: low to medium Screw speed: low to medium Flow front speed: 100 to 200 mm/s			
NOTE			
1.	2.0 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