

Makroblend® AR205

Polycarbonate + PET

Covestro - Polycarbonates

Message:

(PC+PET) blend, easy flow, impact modified; application: automotive body panels

General Information			
Additive	Impact Modifier		
Features	Good Flow		
	Impact Modified		
Uses	Automotive Applications		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.21	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (270°C/5.0 kg)	38.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Across Flow : 270°C, 3.00 mm	0.70 to 0.90	%	
Flow : 270°C, 3.00 mm	0.70 to 0.90	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2200	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	54.0	MPa	
Break, 23°C	48.0	MPa	
Tensile Strain (Yield, 23°C)	4.8	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	> 50	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2200	MPa	ISO 178
Flexural Stress ³			ISO 178
23°C	80.0	MPa	
3.5% Strain, 23°C	68.0	MPa	
Flexural Strain at Flexural Strength ⁴ (23°C)	5.8	%	ISO 178
Melt Viscosity ⁵ (270°C)	200	Pa · s	ISO 11443-A
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	20	kJ/m ²	
23°C	45	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		

Notched Izod Impact Strength			
-30°C	20	kJ/m ²	ISO 180/A
-30°C	No Break		ISO 180/1C
23°C	45	kJ/m ²	ISO 180/A
23°C	No Break		ISO 180/1C
Multi-Axial Instrumented Impact Energy			ISO 6603-2
-30°C	48.0	J	
23°C	42.0	J	
Multi-Axial Instrumented Impact Peak Force			ISO 6603-2
-30°C	5000	N	
23°C	3900	N	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	126	°C	ISO 75-2/B
1.8 MPa, Unannealed	98.0	°C	ISO 75-2/A
Vicat Softening Temperature	138	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 55°C	8.1E-5	cm/cm/°C	
Transverse : 23 to 55°C	8.2E-5	cm/cm/°C	
NOTE			
1.	150x105x3 mm, 70°C MT, 600 bar		
2.	2.0 mm/min		
3.	2.0 mm/min		
4.	2 mm/min		
5.	1000/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

