

Advanced Composites ADX-5023

Compounded Polypropylene
Advanced Composites, Inc.

Message:
High Flow, High Stiffness Interior TPO Suitable for Seamless Airbag Applications

General Information			
Filler / Reinforcement	Talc filler		
Features	Rigidity, high		
	High liquidity		
	ductility		
Uses	Application in Automobile Field		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	19.0	MPa	ISO 527-2
Flexural Modulus	1900	MPa	ISO 178
Scratch Resistance	> 15	N	FTM BN108-13
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/A
-30°C	8.0	kJ/m ²	ISO 180/A
23°C	48	kJ/m ²	ISO 180/A
Instrumented Dart Impact (-30°C, Energy to Peak Load)	23.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	107	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	179	°C	
Middle Temperature	191 - 199	°C	
Front Temperature	210	°C	
Nozzle Temperature	199	°C	
Processing (Melt) Temp	188 - 216	°C	
Mold Temperature	48.9 - 60.0	°C	
Injection Rate	Slow-Moderate		

Cushion	10.0 - 20.0	mm
Injection instructions		

Injection Pressure: 50 to 60% of machine capacityScrew RPM: Should Stop 1 to 2 secs before mold open

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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

