

Advanced Composites ATX-969

Compounded Polypropylene

Advanced Composites, Inc.

Message:

High Performance, Scratch Resistant TPO for Seamless Airbag Applications Approved to Chrysler MS-DC265, Type D Specification

General Information			
Features	Scratch resistance		
Uses	Bags		
	Application in Automobile Field		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	24.2	MPa	ISO 527-2
Tensile Strain (Break)	110	%	ISO 527-2
Flexural Modulus	1970	MPa	ISO 178
Scratch Resistance	> 15	N	FLTM BN108-13
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/A
-40°C	7.6	kJ/m ²	ISO 180/A
23°C	53	kJ/m ²	ISO 180/A
Instrumented Dart Impact (0°C, Total Energy, Ductile Failure)	31.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	128	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	193 - 210	°C	
Middle Temperature	216	°C	
Front Temperature	216	°C	
Nozzle Temperature	210	°C	
Processing (Melt) Temp	199 - 249	°C	
Mold Temperature	48.9 - 60.0	°C	

Injection Rate	Slow-Moderate	
Cushion	6.35 - 12.7	mm
Injection instructions		

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

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