

Advanced Composites ATX781

Polypropylene

Advanced Composites, Inc.

Message:

Advanced Composites ATX781 is a polypropylene product. It is available in North America. Typical application areas are: automotive industry. The main characteristics are: impact resistance.

General Information			
Features	Impact resistance, high Low temperature impact resistance		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	15	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	19.0	MPa	ISO 527-2
Tensile Strain (Break)	440	%	ISO 527-2
Flexural Modulus	1250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180
-40°C	6.7	kJ/m ²	ISO 180
23°C	34	kJ/m ²	ISO 180
Instrumented Dart Impact ¹ (-30°C)	40.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	93.9	°C	ISO 75-2/B
Additional Information			
Instrumented Impact, ASTM D3763, 6.7 m/s, -30°C: 40.2 J 10/10 Ductility			
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	199	°C	
Middle Temperature	210 - 227	°C	
Front Temperature	227	°C	
Nozzle Temperature	227	°C	
Processing (Melt) Temp	216 - 238	°C	
Mold Temperature	26.7 - 43.3	°C	
Injection Rate	Slow-Moderate		

Cushion	6.35 - 12.7	mm
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Injection instructions

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

NOTE

1. 6.70 m/sec

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