# **Advanced Composites ADX-5017**

Compounded Polypropylene Advanced Composites, Inc.



### **Technical Data**

#### **Product Description**

Advanced Composites ADX-5017 is a Compounded Polypropylene product filled with talc. It is available in North America. Typical application: Automotive.

Characteristics include:

- High Flow
- Impact Modified
- Impact Resistant
- · Scratch Resistant

#### General

Material Status	Commercial: Active
Literature <sup>1</sup>	<ul> <li>PP/TPO Processing &amp; Troubleshooting (English)</li> <li>Processing (English)</li> <li>Technical Datasheet (English)</li> </ul>
Availability	North America
Filler / Reinforcement	• Talc
Additive	Impact Modifier
Features	<ul> <li>Good Scratch Resistance</li> <li>High Flow</li> <li>High Impact Resistance</li> <li>Impact Modified</li> </ul>
Forms	Pellets

Physical	Nominal Value Unit	Test Method
Density	1.04 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	28 g/10 min	ISO 1133
Mechanical	Nominal Value Unit	Test Method
Tensile Stress (Yield)	22.0 MPa	ISO 527-2
Flexural Modulus	2020 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength		ISO 180
-40°C	6.0 kJ/m <sup>2</sup>	
23°C	30 kJ/m <sup>2</sup>	
Instrumented Dart Impact <sup>3</sup> (-30°C)	37.2 J	ASTM D3763
Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D)	61	ISO 868
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ISO 75-2/B
0.45 MPa, Unannealed	118 °C	
Additional Information		

Additional Information

Instrumented Dart Impact, ASTM D3763, -30°C, 6.7 m/s, (# Ductile: 30/30): >37.2 J Scratch Resistance, FLTM BN108-13: >15 N

Injection	Nominal Value Unit
Drying Temperature	100 °C
Drying Time	2.0 to 4.0 hr
Rear Temperature	204 °C
Middle Temperature	218 °C
Front Temperature	218 °C

<sup>1</sup> of 2

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## **Advanced Composites ADX-5017**

Compounded Polypropylene

Advanced Composites, Inc.



Nominal Value Unit	
216 °C	
204 to 232 °C	
49 to 60 °C	
6.35 to 12.7 mm	
	216 °C 204 to 232 °C 49 to 60 °C

Injection Pressure: 10% over max fill pressure Holding Pressure: 50 to 60% of max fill pressure Injection Speed: 1 to 3 inches/sec Screw RPM: 1 to 2 secs before mold open

#### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 6.70 m/sec



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