

# Advanced Composites ADX-5017

Compounded Polypropylene

Advanced Composites, Inc.

## Message:

Advanced Composites ADX-5017 is a composite polypropylene product, which contains talc filler. It is available in North America. Typical application areas are: automotive industry.

Features include:

Impact modification

high liquidity

Impact resistance

scratch resistance

General Information			
Filler / Reinforcement	Talc filler		
Additive	Impact modifier		
Features	Impact modification		
	Impact resistance, high		
	High liquidity		
	Scratch resistance		
Forms	Particle		
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
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ISO 868
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			ISO 180
-40°C	6.0	kJ/m <sup>2</sup>	ISO 180
23°C	30	kJ/m <sup>2</sup>	ISO 180
Instrumented Dart Impact <sup>1</sup> (-30°C)	37.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	118	°C	ISO 75-2/B
Additional Information			
Instrumented Dart Impact, ASTM D3763, -30°C, 6.7 m/s, (# Ductile: 30/30): >37.2 JScratch Resistance, FLTM BN108-13: >15 N			
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0 - 4.0	hr	

Rear Temperature	204	°C
Middle Temperature	218	°C
Front Temperature	218	°C
Nozzle Temperature	216	°C
Processing (Melt) Temp	204 - 232	°C
Mold Temperature	48.9 - 60.0	°C
Cushion	6.35 - 12.7	mm

#### Injection instructions

Injection Pressure: 10% over max fill pressureHolding Pressure: 50 to 60% of max fill pressureInjection Speed: 1 to 3 inches/secScrew RPM: 1 to 2 secs before mold open

#### NOTE

1. 6.70 m/sec

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#### Recommended distributors for this material

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