Advanced Composites ADX-5017

Compounded Polypropylene

Advanced Composites, Inc.

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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 [1]	• PP/TPO Processing & Troubleshooting (English) • Processing (English) • Technical Datasheet (English)	
Availability	• North America	
Filler / Reinforcement	• Talc	
Additive	• Impact Modifier	
Features	• Good Scratch Resistance • High Flow	• High Impact Resistance • Impact Modified
Forms	• Pellets	

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	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/m²	
23°C	30	kJ/m²	
Instrumented Dart Impact [3] (-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

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

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Injection	Nominal Value	Unit
Nozzle Temperature	216	°C
Processing (Melt) Temp	204 to 232	°C
Mold Temperature	49 to 60	°C
Cushion	6.35 to 12.7	mm

Injection Notes

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

[1] 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.

[2] Typical properties: these are not to be construed as specifications.

[3] 6.70 m/sec

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