Advanced Composites ADX-5007

Compounded Polypropylene

Advanced Composites, Inc.

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Technical Data

Product Description

Advanced Composites ADX-5007 is a Compounded Polypropylene product filled with talc. It is available in North America.

Characteristics include:

- 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
Features	• Good Scratch Resistance • High Impact Resistance
Forms	• Pellets

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.90 to 1.1	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.1	MPa	ASTM D638
Flexural Modulus	2120	MPa	ASTM D790 ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	39	J/m	
23°C	480	J/m	
Instrumented Dart Impact [3]			ASTM D3763
-30°C, Totol Energy	20.5	J	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D2240

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	127	°C	

Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	< 2.0	hr
Rear Temperature	193	°C
Middle Temperature	210	°C
Front Temperature	216	°C
Nozzle Temperature	210	°C
Processing (Melt) Temp	193 to 249	°C
Mold Temperature	49 to 60	°C
Injection Rate	Slow-Moderate	

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Injection	Nominal Value	Unit
Cushion	6.35 to 12.7	mm

Injection Notes
Injection Pressure: The preferred range is 50 to 60% of machine capacity

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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