Advanced Composites ADX-5007

Compounded Polypropylene Advanced Composites, Inc.



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

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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/cm ³	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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