

Advanced Composites FNS-175S

Polypropylene
Advanced Composites, Inc.

Message:

Advanced Composites FNS-175S is a polypropylene product, which contains talc filler. It is available in North America.
Features include:
Impact modification
High stiffness
Impact resistance

General Information			
Filler / Reinforcement	Talc filler		
Additive	Rubber impact modifier		
Features	Rigidity, high		
	Impact resistance, high		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	68		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	22.3	MPa	ASTM D638
Tensile Elongation ² (Break)	350	%	ASTM D638
Flexural Modulus ³	2000	MPa	ASTM D790
Flexural Strength ⁴	28.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	47	J/m	ASTM D256
23°C	420	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	125	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	193	°C	
Middle Temperature	210 - 216	°C	
Front Temperature	216	°C	
Nozzle Temperature	210	°C	

Processing (Melt) Temp	199 - 227	°C
Mold Temperature	26.7 - 37.8	°C
Injection Rate	Slow-Moderate	
Cushion	6.35 - 12.7	mm

Injection instructions

Injection Pressure: 50 to 60% of machine capacity Screw RPM: 1 to 2 secs before mold open

NOTE

- | | |
|----|------------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 2.0 mm/min |
| 4. | 2.0 mm/min |

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