

Golden Compound PP S²PC 3545 BO

Polypropylene

Golden Compound GmbH

Message:

Easy flowing PP compound with 35 wt.% natural fibers derived from Sunflower Seed Hulls.

Fibers derived from Sunflower Seed Hulls are a side product of Sunflower Oil production. They are GMO free, do not compete with the food chain and do not require additional areal. S² PC has a lower carbon footprint than the materials it is targeted to replace.

General Information			
Filler / Reinforcement	Natural Fiber,35% Filler by Weight		
Features	Good Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	45.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.80	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress	28.0	MPa	ISO 527-2
Tensile Strain (Break)	4.6	%	ISO 527-2
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	40.0	MPa	ISO 178
Flexural Strain	4.5	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.6	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	127	°C	ISO 75-2/B
1.8 MPa, Unannealed	67.0	°C	ISO 75-2/A
Vicat Softening Temperature	74.0	°C	ISO 306/B
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	< 0.040	%	
Processing (Melt) Temp	< 190	°C	
Mold Temperature	20.0	°C	

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