

ParsaFill 39406

Fiber Filled Polypropylene

Description

ParsaFill 39406, a 30% glass fiber-reinforced polypropylene copolymer, is designed for applications where a balance of stiffness and impact strength is required. This product also provides good heat resistance and dimensional stability.

Characteristics

Material Status: Commercial: Active

Filler/Reinforcement: Glass Fiber , 30% by weight

Appearance: Natural, Black

Form: Pellets

Processing Method: Injection molding

Applications

Automotive applications, Variety of engineering parts, Household applications

Properties

Physical	Value	Unit	Test Method
Density	1.07	g/cm ³	ASTM D792
Molding Shrinkage		%	ASTM D955
Across Flow	0.3 - 0.6		
Flow	0.3 - 0.6		
Melt Flow Rate (MFR) (230°C/2.16 kg)	4 - 6	g/10min	ASTM D1238
Flammability	HB	-	UL 94
Mechanical	Value	Unit	Test Method
Tensile Modulus (50 mm/min)	4500	MPa	ASTM D638
Tensile Stress (50 mm/min)		MPa	ASTM D638
Yield	48		
Break	NA		

Tensile Strain (50 mm/min)		%	ASTM D638
Yield	8		
Break	NA		
Flexural Modulus	NA	MPa	ASTM D790
Flexural Stress @ Yield	NA	MPa	ASTM D790
Flexural Strain @ Yield	NA	%	ASTM D790
Charpy Notched Impact Strength		kJ/m ²	ASTM D6110
@ 23 °C	15		
@ 0 °C	NA		
@ -20 °C	NA		
Charpy Unnotched Impact Strength		kJ/m ²	ASTM D6110
@ 23 °C	> 35		
Izod Notched Impact Strength	NA	J/m	ASTM D256
Scratch Resistance (2N)	NA	MPa	ASTM G171-03
Hardness (Shore D, 15 sec, 23°C)	NA		ASTM D2240
Thermal	Value	Unit	Test Method
Heat Deflection Temperature		°C	ASTM D648
1.82 MPa, Unannealed	122		
0.455 MPa, Unannealed	NA		
Vicat Softening Temperature	NA	°C	ASTM D1525

Notes:

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