

ParsaFill 20406S

Fiber Reinforced Polypropylene

Description

ParsaFill 20406S is a glass fiber reinforced polypropylene designed for applications which require high stiffness and good impact strength simultaneously. The grade is heat stabilized and provides excellent processability.

Characteristics

Material Status: Commercial: Active

Filler/Reinforcement: Glass Fiber , 30% by weight

Appearance: Natural

Form: Pellets

Processing Method: Injection molding

Applications

Automotive applications, Variety of industrial applications, Household appliances

Properties

Physical	Value	Unit	Test Method
Density	1.12	g/cm ³	ASTM D792
Molding Shrinkage		%	ASTM D955
Across Flow	0.2 - 0.4		
Flow	0.2 - 0.4		
Melt Flow Rate (MFR) (230°C/2.16 kg)	4	g/10min	ASTM D1238
Flammability	HB	-	UL 94
Mechanical	Value	Unit	Test Method
Tensile Modulus (50 mm/min)	6000	MPa	ASTM D638
Tensile Stress (50 mm/min)		MPa	ASTM D638
Yield	NA		
Break	71		

Tensile Strain (50 mm/min)		%	ASTM D638
Yield	NA		
Break	4		
Flexural Modulus	6200	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	8		
@ 0 °C	3		
@ -20 °C	NA		
Charpy Unnotched Impact Strength		kJ/m ²	ASTM D6110
@ 23 °C	46		
Izod Notched Impact Strength	75	J/m	ASTM D256
Scratch Resistance (2N)	NA	MPa	ASTM G171-03
Hardness (Shore D, 15 sec, 23°C)	79		ASTM D2240
Thermal	Value	Unit	Test Method
Heat Deflection Temperature		°C	ASTM D648
1.82 MPa, Unannealed	135		
0.455 MPa, Unannealed	NA		
Vicat Softening Temperature	NA	°C	ASTM D1525

Notes:

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