ParsaFill 30404E

Fiber Reinforced Polypropylene

Description

ParsaFill 30404E is a 20% glass fiber reinforced random copolymer polypropylene which is designed to fulfill multi-layer pipes application. It provides great mechanical properties along with good processability.

Characteristics

Material Status: Commercial: Active

Filler/Reinforcement: Glass Fiber , 20% by weight

Appearance: Natural

Form: Pellets

Processing Method: Extrusion

Applications

Extrusion of multi-layer pipes, sheets and profiles

Properties

Physical	Value	Unit	Test Method
Density	1.05	g/cm^3	ASTM D792
Melt Flow Rate (MFR) (230°C/2.16 kg)	0.40	g/10min	ASTM D1238
Mechanical	**Value**	**Unit**	**Test Method**
Tensile Modulus (50 mm/min)	4000	MPa	ASTM D638
Tensile Stress @ Yield (50 mm/min)	50	MPa	ASTM D638
Tensile Strain @ Yield (50 mm/min)	6	%	ASTM D638
Flexural Modulus	3700	MPa	ASTM D790
Charpy Notched Impact Strength		kJ/m^2	ASTM D6110
@ 23 °C	17		
@ -20 °C	7		
Hardness (Shore D)	70		ASTM D2240

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Thermal	Value	Unit	Test Method
Heat Deflection Temperature		°C	ASTM D648
1.82 MPa, Unannealed	113		
0.455 MPa, Unannealed	134		
Processing Conditions			
Drying Temperature	80 °C		
Drying Time	2h		
Cylinder Zone 1 Temperature	180 - 220 °C		
Cylinder Zone 2 Temperature	180 - 220 °C		
Cylinder Zone 3 Temperature	180 - 230 °C		
Cylinder Zone 4 Temperature	180 - 230 °C		
Cylinder Zone 5 Temperature	180 - 230 °C		
Melt Temperature	200 - 230 °C		
Die Temperature	200 - 230 °C		

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