

Razin™ Engineering Plastics		Quality Management System Product Information	
Form Code:TE-F01.00	No.:P111 GR30		

Razalen® P111 GR30

Razalen P111 GR30 is a general purpose injection grade natural color copolymer polypropylene reinforced with 30% glass fiber. It combines good toughness as well as excellent processability, chemical, and fatigue resistance.

Properties	Test Method	Unit	Value
Physical			
Density	ASTM D 792	g/cm ³	1.13
MFR(230°C, 2.16 kg)	ASTM D 1238	g/10 min	5
Linear Mold Shrinkage	ASTM D 955	%	0.3

Mechanical			
Tensile Strength, Yield	ASTM D 638	MPa	75
Elongation at Break	ASTM D 638	%	4
Flexural Strength	ASTM D 790	MPa	110
Flexural Modulus	ASTM D 790	MPa	5000
Izod Impact, Notched @ 23 °C @ -30 °C	ASTM D 256	J/m	140

Thermal			
Deflection Temperature Under Load @ 0.46 MPa @ 1.8 MPa	ASTM D 648	°C	- 130
Vicat Softening point	ASTM D 1525	°C	

Processing						
Drying:						
Drying Time:		2 – 4 hr		Drying Temperature:		80 - 100 °C
Injection Molding:						
Item	Rear Temp (°C)	Middle Temp (°C)	Front Temp (°C)	Melt Temp (°C)	Mold Temp (°C)	Inj. Pressure (Mpa)
Min	180	190	200	210	40	50
Max	200	210	220	230	70	150

The data contained in this publication are based on our current knowledge and experience. In view of the many actors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose.