

Razalen® Q111 GR30

Polypropylene Homopolymer

Razin™ Engineering Plastics

Message:

Razalen Q111 GR30 is an injection grade natural color homopolymer polypropylene reinforced with 30% glass fiber. It combines good toughness rigidity balance.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Toughness		
	Homopolymer		
	Medium Rigidity		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	80.0	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	5500	MPa	ASTM D790
Flexural Strength	120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	8.00	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	155	°C	
1.8 MPa, Unannealed	138	°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	200 to 210	°C	
Middle Temperature	210 to 220	°C	
Front Temperature	220 to 230	°C	
Processing (Melt) Temp	220 to 240	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	50.0 to 150	MPa	

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