

Razalen® Q121 GR20

Polypropylene Homopolymer

Razin™ Engineering Plastics

Message:

Razalen Q121 GR20 is an injection grade black color homopolymer polypropylene reinforced with 20% glass fiber. It combines good toughness rigidity balance. Typical applications include automotive underhood application.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Toughness		
	Medium Rigidity		
Uses	Automotive Applications		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	65.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	4000	MPa	ASTM D790
Flexural Strength	100	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	152	°C	
1.8 MPa, Unannealed	132	°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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