

Razalen® P121 GR20

Polypropylene Impact Copolymer

Razin™ Engineering Plastics

Message:

Razalen P121 GR20 is an injection grade black color impact copolymer 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		
Additive	Impact Modifier		
Features	Good Impact Resistance		
	Good Toughness		
	Impact Copolymer		
	Impact Modified		
	Medium Rigidity		
Uses	Automotive Applications		
	Automotive Under the Hood		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	50.0	MPa	ASTM D638
Tensile Elongation (Break)	> 4.0	%	ASTM D638
Flexural Modulus	3400	MPa	ASTM D790
Flexural Strength	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	9.00	kJ/m²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	140	°C	
1.8 MPa, Unannealed	125	°C	
Vicat Softening Temperature	105	°C	ASTM D1525
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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