

Razin™ Engineering Plastics		Quality Management System	
Form Code: 7Te02F1	No.: P121 GR20	Product Information	

Razalen® P121 GR20

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.

Properties	Test Method	Unit	Value
Physical			
Density	ASTM D 792	g/cm ³	1.03
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	50
Elongation at Break	ASTM D 638	%	4
Flexural Strength	ASTM D 790	MPa	80
Flexural Modulus	ASTM D 790	MPa	3400
Izod Impact, Notched	ASTM D 256	kJ/m ²	9
@ 23 °C			
@ -30 °C			-

Thermal			
Deflection Temperature Under Load	ASTM D 648	°C	140
@ 0.46 MPa			
@ 1.8 MPa			125
Vicat Softening point	ASTM D 1525	°C	105

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	200	210	220	220	40	50
Max	210	220	230	240	80	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.