

Razalen® R123

Razalen R123 is a rubber modified injection grade black color polypropylene. It combines excellent toughness as well as excellent processability, chemical, and fatigue resistance. Its good UV stability and low temperature impact strength as well as excellent paintability makes it suitable for automotive Applications.

Properties	Test Method	Unit	Value
Physical			
Density	ASTM D 792	g/cm ³	0.94
MFR(230°C, 2.16 kg)	ASTM D 1238	g/10 min	10
Linear Mold Shrinkage	ASTM D 955	%	1.45

Mechanical			
Tensile Strength, Yield	ASTM D 638	MPa	18
Elongation at Break	ASTM D 638	%	>100
Flexural Strength	ASTM D 790	MPa	23
Flexural Modulus	ASTM D 790	MPa	1100
Charpy Impact, Notched @ 23 °C @ 0 °C	ASTM D 256	kJ/m ²	N.B
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Charpy unnotched impact strength @ 23 °C	ASTM D 6110	KJ/m ²	N.B

Thermal			
Deflection Temperature Under Load @ 0.46 MPa @ 1.8 MPa	ASTM D 648	°C	80
Vicat Softening point	ASTM D 1525	°C	-

Processing						
Drying:						
Drying Time:		1 - 2 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	180	180	180	30	50
Max	215	215	215	220	60	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.