

### Razalen® P111

Razalen P111 is a general purpose injection grade natural color impact copolymer polypropylene.

Properties	Test Method	Unit	Value
<b>Physical</b>			
Density	ASTM D 792	g/cm <sup>3</sup>	0.9
MFR(230°C, 2.16 kg)	ASTM D 1238	g/10 min	18
Linear Mold Shrinkage	ASTM D 955	%	1.3

<b>Mechanical</b>			
Tensile Strength, Yield	ASTM D 638	MPa	27
Elongation at Break	ASTM D 638	%	>100
Flexural Strength	ASTM D 790	MPa	31
Flexural Modulus	ASTM D 790	MPa	1230
Izod Impact, Notched	ASTM D 256	kJ/m <sup>2</sup>	9
@ 23 °C			
@ -30 °C			-

<b>Thermal</b>			
Deflection Temperature Under Load	ASTM D 648	°C	105
@ 0.46 MPa			
@ 1.8 MPa			-
Vicat Softening point	ASTM D 1525	°C	150

<b>Processing</b>						
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	200	210	220	220	30	50
Max	210	220	230	240	60	140

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.