

Razalen® R121 TR5

Polypropylene + EPDM Rubber

Razin™ Engineering Plastics

Message:

Razalen R121TR5 is a rubber modified injection grade black color polypropylene reinforced with 5% Talc. It combines excellent toughness as well as excellent processability, chemical, and fatigue resistance.

General Information			
Filler / Reinforcement	Talc,5.0% Filler by Weight		
Features	Fatigue Resistant		
	Good Chemical Resistance		
	Good Processability		
	Good Toughness		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.910	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.95	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	18.7	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	1910	MPa	ASTM D790
Flexural Strength	26.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	90.0	°C	
1.8 MPa, Unannealed	45.0	°C	
Vicat Softening Temperature	124	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	180 to 220	°C	
Middle Temperature	190 to 220	°C	
Front Temperature	200 to 220	°C	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	30.0 to 60.0	°C	

Injection Pressure

50.0 to 150

MPa

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