

Razalen® P121 TR40

Polypropylene Impact Copolymer

Razin™ Engineering Plastics

Message:

Razalen P121 TR40 is a general purpose injection grade black color impact copolymer polypropylene reinforced with 40% talc. It combines good toughness as well as excellent processability chemical, and fatigue resistance.

General Information			
Filler / Reinforcement	Talc,40% Filler by Weight		
Features	Fatigue Resistant		
	General Purpose		
	Good Chemical Resistance		
	Good Processability		
	Good Toughness		
	Impact Copolymer		
Uses	General Purpose		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25.0	MPa	ASTM D638
Tensile Elongation (Break)	18	%	ASTM D638
Flexural Modulus	2480	MPa	ASTM D790
Flexural Strength	46.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	13	J/m	
23°C	18	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	118	°C	
1.8 MPa, Unannealed	62.0	°C	
Vicat Softening Temperature	168	°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 140	MPa

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