

Razalen® P121 TR20

Polypropylene Impact Copolymer

Razin™ Engineering Plastics

Message:

Razalen P121 TR20 is a general purpose injection grade black color impact copolymer polypropylene reinforced with 20% Talc. It combines good rigidity as well as excellent processability. Typical application includes automotive interior trim.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Additive	Impact Modifier		
Features	General Purpose		
	Good Impact Resistance		
	Good Processability		
	High Rigidity		
	Impact Copolymer		
	Impact Modified		
Uses	General Purpose		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.78	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	22.0	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	2000	MPa	ASTM D790
Flexural Strength	26.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	6.00	kJ/m²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	110	°C	
1.8 MPa, Unannealed	62.0	°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	180 to 200	°C	
Middle Temperature	190 to 210	°C	

Front Temperature	200 to 220	°C
Processing (Melt) Temp	220 to 250	°C
Mold Temperature	30.0 to 65.0	°C
Injection Pressure	50.0 to 150	MPa

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