

Razalen® Q121 CR20

Polypropylene Homopolymer
Razin™ Engineering Plastics

Message:

Razalen Q121 CR20 is is an injection grade black color polypropylene reinforced with 20% calcium carbonate. The grade features high stiffness and good scratch resistance.

General Information			
Filler / Reinforcement	Calcium Carbonate,20% Filler by Weight		
Features	High Stiffness		
	Scratch Resistant		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.1	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.0	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	2400	MPa	ASTM D790
Flexural Strength	40.0	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 (0.45 MPa, Unannealed)	115	°C	ASTM D648
Vicat Softening Temperature	110	°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 205	°C	
Middle Temperature	205 to 210	°C	
Front Temperature	210 to 215	°C	
Processing (Melt) Temp	220 to 240	°C	
Mold Temperature	40.0 to 70.0	°C	
Injection Pressure	50.0 to 150	MPa	

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