

Razalen® Q121 TR20

Polypropylene Homopolymer

Razin™ Engineering Plastics

Message:

Razalen Q121TR20 is an injection grade black color polypropylene reinforced with 20% Talc. The grade features high stiffness and good scratch resistance.

| General Information | | | |
|---|---------------------------|-------------------|-------------|
| Filler / Reinforcement | Talc,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/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 1.1 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 40.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 30 | % | ASTM D638 |
| Flexural Modulus | 2900 | MPa | ASTM D790 |
| Flexural Strength | 50.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 35 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 120 | °C | |
| 1.8 MPa, Unannealed | 67.0 | °C | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 80.0 to 100 | °C | |
| Drying Time | 2.0 to 4.0 | hr | |
| Rear Temperature | 195 to 215 | °C | |
| Middle Temperature | 205 to 225 | °C | |
| Front Temperature | 215 to 235 | °C | |
| Processing (Melt) Temp | 220 to 250 | °C | |
| Mold Temperature | 50.0 to 80.0 | °C | |
| Injection Pressure | 50.0 to 150 | MPa | |

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