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| Razin™ Engineering Plastics | | Quality Management System Product Information |  |
| Form Code: 7Te02F1 | No.: P121 | | |

Razalen® P121

Razalen P121 is a general purpose injection grade black color impact copolymer polypropylene.

| Properties | Test Method | Unit | Value |
|-----------------------|-------------|-------------------|-------|
| Physical | | | |
| Density | ASTM D 792 | g/cm ³ | 0.9 |
| MFR(230°C, 2.16 kg) | ASTM D 1238 | g/10 min | 18 |
| Linear Mold Shrinkage | ASTM D 955 | % | 1.3 |

| | | | |
|-------------------------|------------|-------------------|------|
| Mechanical | | | |
| Tensile Strength, Yield | ASTM D 638 | MPa | 27 |
| Elongation at Break | ASTM D 638 | % | >100 |
| Flexural Strength | ASTM D 790 | MPa | 31 |
| Flexural Modulus | ASTM D 790 | MPa | 1230 |
| Izod Impact, Notched | ASTM D 256 | kJ/m ² | 9 |
| @ 23 °C | | | |
| @ -30 °C | | | - |

| | | | |
|-----------------------------------|-------------|----|-----|
| Thermal | | | |
| Deflection Temperature Under Load | ASTM D 648 | °C | 105 |
| @ 0.46 MPa | | | |
| @ 1.8 MPa | | | - |
| Vicat Softening point | ASTM D 1525 | °C | 150 |

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|--------------------|----------------|------------------|-----------------|---------------------|----------------|---------------------|
| Processing | | | | | | |
| Drying: | | | | | | |
| | Drying Time: | | 1 – 2 hr | Drying Temperature: | | 80 - 100 °C |
| Injection Molding: | | | | | | |
| Item | Rear Temp (°C) | Middle Temp (°C) | Front Temp (°C) | Melt Temp (°C) | Mold Temp (°C) | Inj. Pressure (Mpa) |
| Min | 200 | 210 | 220 | 220 | 30 | 50 |
| Max | 210 | 220 | 230 | 240 | 60 | 140 |

The data contained in this publication are based on our current knowledge and experience. In view of the many actors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose.