

# 4PROP® 9C21120 FR5

Polypropylene Copolymer  
4Plas

Message:

4PROP 9C21120 FR5 is a MFI 15 20% Talc Filled FR-V0 Halogen Free Copolymer Polypropylene

| General Information                                   |                                   |                   |                |
|-------------------------------------------------------|-----------------------------------|-------------------|----------------|
| Filler / Reinforcement                                | Talc filler, 20% filler by weight |                   |                |
| Features                                              | Copolymer                         |                   |                |
|                                                       | Halogen-free                      |                   |                |
| Processing Method                                     | Injection molding                 |                   |                |
| Physical                                              | Nominal Value                     | Unit              | Test Method    |
| Density                                               | 1.36                              | g/cm <sup>3</sup> | ISO 1183       |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)             | 15                                | g/10 min          | ISO 1133       |
| Mechanical                                            | Nominal Value                     | Unit              | Test Method    |
| Tensile Modulus (23°C)                                | 3500                              | MPa               | ISO 527-2/5    |
| Tensile Stress (Break, 23°C)                          | 20.0                              | MPa               | ISO 527-2/5    |
| Tensile Strain (Break, 23°C)                          | 10                                | %                 | ISO 527-2/5    |
| Impact                                                | Nominal Value                     | Unit              | Test Method    |
| Notched Izod Impact                                   |                                   |                   | ISO 180/1A     |
| -30°C                                                 | 5.0                               | kJ/m <sup>2</sup> | ISO 180/1A     |
| 23°C                                                  | 15                                | kJ/m <sup>2</sup> | ISO 180/1A     |
| Thermal                                               | Nominal Value                     | Unit              | Test Method    |
| Melting Temperature <sup>1</sup>                      | 165                               | °C                | ISO 11357      |
| Flammability                                          | Nominal Value                     | Unit              | Test Method    |
| Flame Rating (1.60 mm)                                | V-0                               |                   | UL 94          |
| Glow Wire Flammability Index (2.00 mm)                | 960                               | °C                | IEC 60695-2-12 |
| Injection                                             | Nominal Value                     | Unit              |                |
| Processing (Melt) Temp                                | 200 - 240                         | °C                |                |
| Mold Temperature                                      | 20.0 - 50.0                       | °C                |                |
| Injection Rate                                        | Moderate                          |                   |                |
| Holding Pressure                                      | 40.0 - 80.0                       | MPa               |                |
| Screw Speed                                           | 200                               | rpm               |                |
| Injection instructions                                |                                   |                   |                |
| Feed Throat Temperature: 20 - 60 °CBack Pressure: Low |                                   |                   |                |
| NOTE                                                  |                                   |                   |                |
| 1.                                                    | 10 K/min                          |                   |                |

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