

# 4PROP® 9D12430 FR5HUV

Polypropylene Homopolymer  
4Plas

Message:

4PROP 9D12430 FR5HUV is a MFI 5 30% Chemically Coupled Glass Fibre FR-V0 Halogen Free, Heat & UV Stabilised Homopolymer Polypropylene

| General Information                       |                                                       |                   |             |
|-------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass fiber reinforced material, 30% filler by weight |                   |             |
| Additive                                  | heat stabilizer                                       |                   |             |
|                                           | UV stabilizer                                         |                   |             |
| Features                                  | Chemical coupling                                     |                   |             |
|                                           | Homopolymer                                           |                   |             |
|                                           | Good UV resistance                                    |                   |             |
|                                           | Thermal Stability                                     |                   |             |
|                                           | 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) | 5.0                                                   | g/10 min          | ISO 1133    |
| Mechanical                                | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus (23°C)                    | 9500                                                  | MPa               | ISO 527-2/5 |
| Tensile Stress (Break, 23°C)              | 85.0                                                  | MPa               | ISO 527-2/5 |
| Tensile Strain (Break, 23°C)              | 3.0                                                   | %                 | ISO 527-2/5 |
| Impact                                    | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact                       |                                                       |                   | ISO 180/1A  |
| -30°C                                     | 8.0                                                   | kJ/m <sup>2</sup> | ISO 180/1A  |
| 23°C                                      | 9.0                                                   | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                                   | Nominal Value                                         | Unit              | Test Method |
| Heat Deflection Temperature               |                                                       |                   |             |
| 0.45 MPa, not annealed                    | 140                                                   | °C                | ISO 75-2/B  |
| 1.8 MPa, not annealed                     | 150                                                   | °C                | ISO 75-2/A  |
| Melting Temperature <sup>1</sup>          | 170                                                   | °C                | ISO 11357   |
| Electrical                                | Nominal Value                                         | Unit              | Test Method |
| Surface Resistivity                       | 1.0E+15                                               | ohms              | IEC 60093   |
| Volume Resistivity                        | 1.0E+15                                               | ohms · cm         | IEC 60093   |
| Comparative Tracking Index                | 600                                                   | V                 | IEC 60112   |
| Flammability                              | Nominal Value                                         | Unit              | Test Method |

|                                                       |               |      |                |
|-------------------------------------------------------|---------------|------|----------------|
| Flame Rating                                          |               |      | UL 94          |
| 1.60 mm                                               | V-0           |      | UL 94          |
| 3.20 mm                                               | V-0           |      | UL 94          |
| Glow Wire Flammability Index (2.00 mm)                | 960           | °C   | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (2.00 mm)              | 850           | °C   | IEC 60695-2-13 |
| 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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