

# 4PROP® 25C10800

Polypropylene Copolymer  
4Plas

Message:

4PROP 25C10800 is a Extrusion Grade Recycled Copolymer Polypropylene

| General Information                                   |                      |                   |                |
|-------------------------------------------------------|----------------------|-------------------|----------------|
| Features                                              | Copolymer            |                   |                |
|                                                       | Recyclable materials |                   |                |
| Processing Method                                     | Extrusion            |                   |                |
|                                                       | Injection molding    |                   |                |
| Physical                                              | Nominal Value        | Unit              | Test Method    |
| Density                                               | 0.905                | g/cm <sup>3</sup> | ISO 1183       |
| Mechanical                                            | Nominal Value        | Unit              | Test Method    |
| Tensile Modulus (23°C)                                | 1300                 | MPa               | ISO 527-2/5    |
| Tensile Stress (Break, 23°C)                          | 28.0                 | MPa               | ISO 527-2/5    |
| Tensile Strain (Break, 23°C)                          | 50                   | %                 | ISO 527-2/5    |
| Impact                                                | Nominal Value        | Unit              | Test Method    |
| Notched Izod Impact                                   |                      |                   | ISO 180/1A     |
| -30°C                                                 | 2.0                  | kJ/m <sup>2</sup> | ISO 180/1A     |
| 23°C                                                  | 6.0                  | kJ/m <sup>2</sup> | ISO 180/1A     |
| Thermal                                               | Nominal Value        | Unit              | Test Method    |
| Heat Deflection Temperature (0.45 MPa, Unannealed)    | 88.0                 | °C                | ISO 75-2/B     |
| Vicat Softening Temperature                           | 67.0                 | °C                | ISO 306/B      |
| Melting Temperature <sup>1</sup>                      | 165                  | °C                | ISO 11357      |
| Flammability                                          | Nominal Value        | Unit              | Test Method    |
| Flame Rating (1.60 mm)                                | HB                   |                   | UL 94          |
| Glow Wire Ignition Temperature (2.00 mm)              | 650                  | °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-Fast        |                   |                |
| Holding Pressure                                      | 40.0 - 80.0          | MPa               |                |
| Screw Speed                                           | 400                  | rpm               |                |
| Injection instructions                                |                      |                   |                |
| Feed Throat Temperature: 20 - 60 °CBack Pressure: Low |                      |                   |                |
| Extrusion                                             | Nominal Value        | Unit              |                |

|                  |             |    |
|------------------|-------------|----|
| Melt Temperature | 200 - 240   | °C |
| Die Temperature  | 20.0 - 50.0 | °C |
| NOTE             |             |    |
| 1.               | 10 K/min    |    |

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