

# Tecolen® CP30 NL XA80

Polypropylene Copolymer  
Eurotec Engineering Plastics

Message:  
PPCP, flame retardant - halogen free, heat stabilized, natural

| General Information                               |                      |         |             |
|---------------------------------------------------|----------------------|---------|-------------|
| Additive                                          | Flame Retardant      |         |             |
|                                                   | Heat Stabilizer      |         |             |
| Features                                          | Copolymer            |         |             |
|                                                   | Flame Retardant      |         |             |
|                                                   | Halogen Free         |         |             |
|                                                   | Heat Stabilized      |         |             |
| Agency Ratings                                    | EC 1907/2006 (REACH) |         |             |
| RoHS Compliance                                   | RoHS Compliant       |         |             |
| Appearance                                        | Natural Color        |         |             |
| Processing Method                                 | Injection Molding    |         |             |
| Resin ID (ISO 1043)                               | PP FR(40)            |         |             |
| Physical                                          | Nominal Value        | Unit    | Test Method |
| Density                                           | 1.05                 | g/cm³   | ISO 1183    |
| Mechanical                                        | Nominal Value        | Unit    | Test Method |
| Tensile Modulus (23°C)                            | 1750                 | MPa     | ISO 527-2   |
| Tensile Stress (Break, 23°C)                      | 20.0                 | MPa     | ISO 527-2   |
| Impact                                            | Nominal Value        | Unit    | Test Method |
| Notched Izod Impact Strength                      |                      |         | ISO 180/1A  |
| -30°C                                             | 4.0                  | kJ/m²   |             |
| 23°C                                              | 10                   | kJ/m²   |             |
| Thermal                                           | Nominal Value        | Unit    | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 60.0                 | °C      | ISO 75-2/A  |
| Melting Temperature <sup>1</sup>                  | 160 to 165           | °C      | ISO 11357-3 |
| 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 (Solution A)           | 600                  | V       | IEC 60112   |
| Flammability                                      | Nominal Value        | Unit    | Test Method |
| Flame Rating                                      |                      |         | UL 94       |
| 0.750 mm                                          | V-2                  |         |             |

| 1.60 mm                                  | V-0           |      |                |
|------------------------------------------|---------------|------|----------------|
| Glow Wire Flammability Index (2.00 mm)   | 960           | °C   | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (2.00 mm) | 875           | °C   | IEC 60695-2-13 |
| Injection                                | Nominal Value | Unit |                |
| Hopper Temperature                       | < 60.0        | °C   |                |
| Processing (Melt) Temp                   | 200 to 240    | °C   |                |
| Mold Temperature                         | 20.0 to 50.0  | °C   |                |
| Injection Rate                           | Moderate-Fast |      |                |
| Holding Pressure                         | 40.0 to 80.0  | MPa  |                |
| Back Pressure                            | Low           |      |                |
| NOTE                                     |               |      |                |
| 1.                                       | 10 K/min      |      |                |

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