

# NORYL™ RN0206 resin

Polyphenylene Ether + PS  
SABIC Innovative Plastics Asia Pacific

Message:

RN0206 is an unfilled Post Consumer Recycle (PCR) based injection moldable modified polyphenylene ether resin comprising at least 10% PCR styrenic series resin content. Available in black only.

| General Information                                              |                   |                   |                |
|------------------------------------------------------------------|-------------------|-------------------|----------------|
| Recycled Content                                                 | Yes, 10%          |                   |                |
| Appearance                                                       | Black             |                   |                |
| Processing Method                                                | Injection Molding |                   |                |
| Physical                                                         | Nominal Value     | Unit              | Test Method    |
| Specific Gravity                                                 | 1.10              | g/cm <sup>3</sup> | ASTM D792      |
| Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)                        | 5.0               | g/10 min          | ASTM D1238     |
| Mechanical                                                       | Nominal Value     | Unit              | Test Method    |
| Tensile Strength <sup>1</sup> (Yield)                            | 73.0              | MPa               | ASTM D638      |
| Tensile Elongation <sup>2</sup> (Break)                          | 14                | %                 | ASTM D638      |
| Flexural Modulus <sup>3</sup> (100 mm Span)                      | 2500              | MPa               | ASTM D790      |
| Flexural Strength <sup>4</sup> (Yield, 100 mm Span)              | 100               | MPa               | ASTM D790      |
| Impact                                                           | Nominal Value     | Unit              | Test Method    |
| Notched Izod Impact (23°C)                                       | 180               | J/m               | ASTM D256      |
| Thermal                                                          | Nominal Value     | Unit              | Test Method    |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm) | 118               | °C                | ASTM D648      |
| Ball Pressure Test <sup>5</sup> (120°C)                          | Pass              |                   | IEC 60695-10-2 |
| Electrical                                                       | Nominal Value     | Unit              | Test Method    |
| Dielectric Strength (3.20 mm, in Air)                            | 27                | kV/mm             | ASTM D149      |
| Comparative Tracking Index (CTI)                                 | PLC 2             |                   | UL 746         |
| Hot-wire Ignition (HWI)                                          | PLC 1             |                   | UL 746         |
| Flammability                                                     | Nominal Value     | Unit              | Test Method    |
| Flame Rating (0.750 mm)                                          | V-0               |                   | UL 94          |
| Injection                                                        | Nominal Value     | Unit              |                |
| Drying Temperature                                               | 104 to 110        | °C                |                |
| Drying Time                                                      | 3.0 to 4.0        | hr                |                |
| Drying Time, Maximum                                             | 8.0               | hr                |                |
| Suggested Max Moisture                                           | 0.020             | %                 |                |
| Suggested Shot Size                                              | 30 to 70          | %                 |                |
| Rear Temperature                                                 | 243 to 293        | °C                |                |
| Middle Temperature                                               | 254 to 299        | °C                |                |
| Front Temperature                                                | 266 to 304        | °C                |                |

|                        |                |     |
|------------------------|----------------|-----|
| Nozzle Temperature     | 277 to 304     | °C  |
| Processing (Melt) Temp | 277 to 304     | °C  |
| Mold Temperature       | 71.1 to 98.9   | °C  |
| Back Pressure          | 0.345 to 0.689 | MPa |
| Screw Speed            | 20 to 100      | rpm |
| Vent Depth             | 0.038 to 0.051 | mm  |

#### NOTE

- |    |                     |
|----|---------------------|
| 1. | Type I, 50 mm/min   |
| 2. | Type I, 50 mm/min   |
| 3. | 2.6 mm/min          |
| 4. | 2.6 mm/min          |
| 5. | Approximate maximum |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

