

# Retpol® 7860

Rubber

PolyPacific Pty. Ltd.

## Message:

Seblex 7860 is a thermoplastic styrenic rubber compound which has been oil extended to produce a very soft gel like material. It is an extremely high flow injection moulding grade having a melt flow index in excess of 200 g/10min and has been formulated with ingredients referenced under the US Code of Federal Regulations, Volume 21. It has been developed for maximum softness and displays very high clarity.

| General Information                              |                   |                   |             |
|--|-------------------|-------------------|-------------|
| Features   | High Clarity      |                   |             |
|  | High Flow         |                   |             |
|  | Soft              |                   |             |
| Uses   | Footwear          |                   |             |
|  | Seals             |                   |             |
| Appearance                                       | Clear/Transparent |                   |             |
| Forms  | Granules          |                   |             |
| Processing Method                                | Injection Molding |                   |             |
| Physical   | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                 | 0.888             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)        | 300               | g/10 min          | ASTM D1238  |
| Hardness   | Nominal Value     | Unit              | Test Method |
| Durometer Hardness                               |                   |                   | ASTM D2240  |
| Shore A, 2.00 mm                                 | 10                |                   |             |
| Shore A, 5 sec, 2.00 mm                          | 8                 |                   |             |
| Elastomers                                       | Nominal Value     | Unit              | Test Method |
| Tensile Stress <sup>1</sup>                      |                   |                   | ASTM D412   |
| 100% Strain, 2.00 mm                             | 0.100             | MPa               |             |
| 300% Strain, 2.00 mm                             | 0.300             | MPa               |             |
| Tensile Strength <sup>2</sup> (Break, 2.00 mm)   | 1.40              | MPa               | ASTM D412   |
| Tensile Elongation <sup>3</sup> (Break, 2.00 mm) | 500               | %                 | ASTM D412   |
| Injection  | Nominal Value     | Unit              |             |
| Drying Temperature                               | 60.0              | °C                |             |
| Drying Time                                      | 1.0 to 2.0        | hr                |             |
| Suggested Max Regrind                            | 10                | %                 |             |
| Processing (Melt) Temp                           | 200 to 240        | °C                |             |
| Mold Temperature                                 | 20.0 to 60.0      | °C                |             |
| Injection Rate                                   | Slow              |                   |             |
| NOTE   |                   |                   |             |

|    |            |
|----|------------|
| 1. | 500 mm/min |
| 2. | 500 mm/min |
| 3. | 500 mm/min |

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