



# VERSOLLAN™ OM 1262NX-9

GLS Corp., Thermoplastic Elastomers Div. - Thermoplastic Polyurethane Elastomer, Unspecified

Tuesday, April 29, 2008

## General Information

### Product Description

Versollan™ OM 1262NX-9 is a performance TPU alloy designed for thin-wall overmolding onto polycarbonate (PC), ABS, PC/ABS and copolyester substrates.

### General

|                       |  |
|-----------------------|--|
| Material Status       | <ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>   |
| Regional Availability | <ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> <li>Europe</li> <li>North America</li> <li>South America</li> </ul> |
| Features              | <ul style="list-style-type: none"> <li>Adhesion, Good</li> <li>Soft</li> </ul>   |
| Uses                  | <ul style="list-style-type: none"> <li>Overmolding</li> </ul>  |
| Appearance            | <ul style="list-style-type: none"> <li>Black</li> <li>Matte Finish</li> </ul>  |
| Forms                 | <ul style="list-style-type: none"> <li>Pellets</li> </ul>  |
| Processing Method     | <ul style="list-style-type: none"> <li>Injection Molding</li> </ul>  |

## ASTM and ISO Properties <sup>1</sup>

| Physical  | Nominal Value | Unit | Test Method            |
|---|---------------|------|------------------------|
| Specific Gravity                                      | 1.19          |      | ASTM D792              |
| Melt Mass-Flow Rate (MFR)                             |               |      | ASTM D1238             |
| (190°C/2.16 kg)                                       | 7.0           |      |                        |
| (200°C/5.0 kg)  | 100           |      |                        |
| Molding Shrink (Flow)                                 | 0.90 to 1.5   |      | ASTM D955              |
| Elastomers  | Nominal Value | Unit | Test Method            |
| Tensile Stress at 100% (73.4 °F)                      | 400           |      | ASTM D412 <sup>2</sup> |
| Tensile Stress at 300% (73.4 °F)                      | 580           |      | ASTM D412 <sup>2</sup> |
| Tensile Strength at Break (73 °F)                     | 1700          |      | ASTM D412 <sup>2</sup> |
| Elongation at Break (73.4 °F)                         | 690           |      | ASTM D412 <sup>2</sup> |
| Tear Strength (73 °F, Die C)                          | 250           |      | ASTM D624              |
| Compression Set (22.0 hr)                             | 29            |      | ASTM D395 <sup>3</sup> |
| Hardness  | Nominal Value | Unit | Test Method            |
| Durometer Hardness (Shore A, 10 sec)                  | 65            |      | ASTM D2240             |
| Flammability  | Nominal Value | Unit | Test Method            |
| Flame Rating - UL (0.0591 in)                         | HB            |      | UL 94                  |
| Fill Analysis   | Nominal Value | Unit | Test Method            |
| Apparent Viscosity (392 °F, 11200 sec <sup>-1</sup> ) | 16.0          |      | ASTM D3835             |

## Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 125 to 130    |      |
| Drying Time            | 3.0 to 4.0    |      |
| Suggested Max Moisture | 0.10          |      |
| Suggested Max Regrind  | 20            |      |
| Rear Temperature       | 325 to 365    |      |

Copyright ©, 2008 PolyOne Distribution Company The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variation in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the application disclosed. Full-scale testing and end product performance are the responsibility of the user. PolyOne Distribution Company shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond PolyOne Distribution Company's direct control. PolyOne Distribution Company MAKES NO WARRANTIES, EXPRESS OR IMPLIED, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendations, nor as an inducement to practice any patented invention without permission of the patent owner.

## Elastomer - Unspecified

|                    |              |
|--------------------|--------------|
| Middle Temperature | 335 to 385   |
| Front Temperature  | 350 to 410   |
| Nozzle Temperature | 350 to 410   |
| Mold Temperature   | 70.0 to 120  |
| Injection Pressure | 200 to 800   |
| Back Pressure      | 25.0 to 50.0 |
| Screw Speed        | 25 to 75     |

## Injection Notes

Holding Pressure: 70% of Boost  
Injection Speed: 1 to 5 in/sec  
Hold Time (Thick Part): 4 to 10 sec  
Hold Time (Thin Part): 1 to 3 sec  
Suggested Dewpoint: -40°F

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Die C

<sup>3</sup> Method B