

# OXNILON 6 4IMP

Polyamide 6  
Oxford Polymers

Message:

OXNILON 6 4IMP is a Polyamide 6 (Nylon 6) material. It is available in North America for injection molding.  
Important attributes of OXNILON 6 4IMP are:  
Flame Rated  
Impact Modified

| General Information               |                   |                   |             |
|-----------------------------------|-------------------|-------------------|-------------|
| Additive                          | Impact Modifier   |                   |             |
| Features                          | Impact Modified   |                   |             |
| Forms                             | Pellets           |                   |             |
| Processing Method                 | Injection Molding |                   |             |
| Physical                          | Nominal Value     | Unit              | Test Method |
| Specific Gravity                  | 1.09              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow          | 1.4 to 2.0        | %                 | ASTM D955   |
| Mechanical                        | Nominal Value     | Unit              | Test Method |
| Tensile Strength                  |                   |                   | ASTM D638   |
| Yield                             | 60.0              | MPa               |             |
| Break                             | 62.1              | MPa               |             |
| Flexural Modulus                  | 1930              | MPa               | ASTM D790   |
| Flexural Strength                 | 82.7              | MPa               | ASTM D790   |
| Impact                            | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (4°C)         | 160               | J/m               | ASTM D256   |
| Thermal                           | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load |                   |                   | ASTM D648   |
| 0.45 MPa, Unannealed              | 227               | °C                |             |
| 1.8 MPa, Unannealed               | 73.9              | °C                |             |
| Flammability                      | Nominal Value     |                   | Test Method |
| Flame Rating (1.59 mm)            | HB                |                   | UL 94       |
| Injection                         | Nominal Value     | Unit              |             |
| Drying Temperature                | 73.9 to 85.0      | °C                |             |
| Drying Time                       | 3.0 to 4.0        | hr                |             |
| Drying Time, Maximum              | 8.0               | hr                |             |
| Rear Temperature                  | 266 to 277        | °C                |             |
| Middle Temperature                | 271 to 282        | °C                |             |
| Front Temperature                 | 277 to 288        | °C                |             |
| Processing (Melt) Temp            | 277 to 293        | °C                |             |
| Mold Temperature                  | 65.6 to 93.3      | °C                |             |

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

