

# MARPOL® LL4M 899

Linear Low Density Polyethylene

Marco Polo International, Inc.

## Message:

Description: This resin exhibits excellent flow for high speed injection molding applications while providing good tear resistance and ESCR.

| General Information                                     |                                  |                   |             |
|---|----------------------------------|-------------------|-------------|
| Features  | Good Tear Strength               |                   |             |
|   | High ESCR (Stress Crack Resist.) |                   |             |
|   | High Flow                        |                   |             |
| Processing Method                                       | Injection Molding                |                   |             |
| Physical  | Nominal Value                    | Unit              | Test Method |
| Density   | 0.929                            | g/cm <sup>3</sup> | ASTM D4883  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)               | 110                              | g/10 min          | ASTM D1238  |
| Hardness  | Nominal Value                    | Unit              | Test Method |
| Durometer Hardness (Shore D)                            | 59                               |                   | ASTM D2240  |
| Mechanical  | Nominal Value                    | Unit              | Test Method |
| Tensile Strength  |                                  |                   | ASTM D638   |
| Yield   | 16.2                             | MPa               |             |
| Break   | 12.4                             | MPa               |             |
| Tensile Elongation (Yield)                              | 9.3                              | %                 | ASTM D638   |
| Flexural Modulus  |                                  |                   | ASTM D790   |
| 1% Secant   | 524                              | MPa               |             |
| 2% Secant   | 483                              | MPa               |             |
| Thermal   | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 50.0                             | °C                | ASTM D648   |
| Brittleness Temperature                                 | < -60.0                          | °C                | ASTM D746   |
| Vicat Softening Temperature                             | 86.1                             | °C                | ASTM D1525  |

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