

## ROMTEC POLY PIPE

The following is an example of the Romtec Poly Pipe included in the design of this building.

### Specifications

- 12" High Density Polyethylene (HDPE)



# PAXON™

## High Density Polyethylene 7004 Crosslinkable Rotational Molding Resin

### Description

7004 is a UV-stabilized, 35 mesh crosslinkable HDPE powder intended for use in rotational molding. Properly molded parts made with 7004 show exceptional environmental stress cracking resistance, thermal resistance, and notched failure resistance. The high flow base resin promotes rapid melting and outstanding part fill during processing while the finished part exhibits high performance characteristics reflecting crosslinked molecular weight. This resin is available in various colors, plus natural.

### Applications

- High ESCR, outdoor storage tanks, vessels
- Marine fuel tanks
- Recreational vehicle fuel tanks
- Large refuse containers

### Additive Package

7004

### Stabilizer

Long term UV stabilizer

| Molded Properties <sup>2</sup>                     | Test Based On     | Unit SI (English)                        | Typical Value <sup>1</sup> |
|--|-------------------|--|----------------------------|
| Tensile Strength at Yield                          | ASTM D 638        | MPa (psi)                                | 21 (3,000)                 |
| Elongation at Break                                | ASTM D 638        | %  | > 300                      |
| Tensile Modulus of Elasticity                      | ASTM D 638        | MPa (psi)                                | 793 (115,000)              |
| Flexural Modulus <sup>3</sup>                      | ASTM D 790        | MPa (psi)                                | 689 (100,000)              |
| Impact Brittleness Temperature                     | ASTM D 746        | °C (°F)                                  | < -118 (< -180)            |
| Crosslink Potential                                | ExxonMobil Method |  | 2.5                        |
| Environmental Stress Crack Resistance <sup>4</sup> | ASTM D 1693       | hrs                                      | F <sub>0</sub> > 1,000     |
| Notched Izod                                       | ASTM D 256        | joules/m (ft-lb/in)                      | 907 (17)                   |
| Notched Izod (-40°C)                               | ASTM D 256        | joules/m (ft-lb/in)                      | 240 (4.5)                  |
| <b>Thermal Properties</b>                          |                   |  |                            |
| Vicat Softening Temperature                        | ASTM D 1525       | °C (°F)                                  | 121 (250)                  |
| Heat Deflection Temperature, 66 psi                | ASTM D 648        | °C (°F)                                  | 66 (150)                   |
| <b>Processing<sup>5</sup></b>                      |                   |  |                            |
| Bulk Density                                       | ASTM D 1895       | kg/m <sup>3</sup> (lbs/ft <sup>3</sup> ) | 370 (23)                   |

1. Values are typical and should not be interpreted as specifications. Values may change with future development.

2. All molded properties were measured on rotomolded specimens.

3. Method 1, Procedure A (1"x3"x0.125"), Tangent calculation.

4. Condition A and B, 10% Igepal CO-630.

5. Measurement based on resin as supplied.

Revised January 2006

©2006 Exxon Mobil Corporation. To the extent the user is entitled to disclose and distribute this document, the user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a Web site. ExxonMobil does not guarantee the typical (or other) values. Analysis may be performed on representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials, or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage, or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no endorsement of any product or process, and we expressly disclaim any contrary implication. The terms, "we", "our", "ExxonMobil Chemical", or "ExxonMobil" are used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates they directly or indirectly steward. ExxonMobil, the ExxonMobil Emblem, the "Interlocking X" Device, and Paxon are trademarks of Exxon Mobil Corporation.