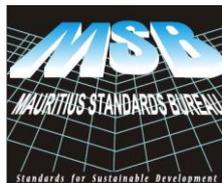

**Polyethylene storage tanks for water and
chemicals**

PREVIEW

ICS 23.020.10; 91.140.60



**Mauritius Standards Bureau
Moka**

Gr 15



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*Mauritius Standards Bureau
Villa Road
Moka
Mauritius*

| | |
|------------------|-----------------------------------|
| <i>Telephone</i> | <i>+ (230) 433 3648</i> |
| <i>Fax</i> | <i>+ (230) 433 5051/ 433 5150</i> |
| <i>E-mail</i> | <i>msb@intnet.mu</i> |
| <i>Website</i> | <i>http://msb.intnet.mu</i> |

Polyethylene storage tanks for water and chemicals

1 Scope

This Standard specifies requirements for the design and manufacture of polyethylene storage tanks that are rotationally moulded in one-piece seamless construction. The tanks are for non-buried, vertical installation and capable of containing water, liquids used in food and beverage manufacture and chemical solutions at atmospheric pressure.

Separation of the roof (lid) from the body of the tank, after moulding, is permitted for transport purposes, provided that:

- a) the structural integrity of the tank is not adversely affected after the roof has been refitted by the manufacturer or its nominated representative in the manner prescribed by the design engineer; and
- b) the prevention of insect and/or vermin ingress is maintained.

This Standard does not provide design criteria for –

- a) liquid contents heated above their flash points;
- b) liquid contents with service temperatures above –
 - i) 40 °C; or
 - ii) the rated service temperature of the tank material.
- c) superimposed pressure exceeding 0.25 m head of water, or 2.5 kPa above the maximum recommended fill level; and
- d) superimposed mechanical forces, such as seismic forces, wind load or agitation.

Where criteria in Items (a) to (d) apply, special design consideration shall be given.

Material data used as a basis for the design may include 'hydrostatic design stress data' and/or 'creep and creep rupture data'.

This Standard does not apply to portable tanks for the transport of liquids.