

**HIGH-IMPACT POLYSTYRENE  
GRADE 945**

Application: to manufacture articles, requiring extraordinary strength, by jet molding: industrial enclosures, frames for household appliances, toys, industrial bobbins.

Chemical name: High-impact poly(ethenylbenzene)

Empirical formula:  $[C_8H_8 \cdot C_4H_6]_N$

Technical requirements: TU 2214-126-05766801-2003

| QUALITY                                                     | VALUE     | TEST METHOD                      |
|-------------------------------------------------------------|-----------|----------------------------------|
| Melt flow rate, g/10 min, at 200°C, 5 kg load, in the range | 9.0 ± 2.0 | ASTM D-1238                      |
| Vicat softening point, °C, min.                             | 80.0      | ASTM D-1525                      |
| Rupture strength, MPa, min.                                 | 15.0      | ASTM D-638                       |
| Elongation at rupture, %, min.                              | 50.0      | ASTM D-638                       |
| Izod notched impact strength, J/m, min.                     | 120.0     | ASTM D-256                       |
| Flexural strength, MPa, min.                                | 30.0      | ASTM D-790                       |
| Gloss, 60°, min.                                            | 60.0      | ASTM D-523                       |
| Mass fraction of residual styrene, %, max                   | 0.05      | GOST 15820 or Fina LAB 1/34-1/35 |

**Supply form:** Pellets

**Packaging:** Paper, polyethylene or polypropylene bags

**Transportation:** By all modes of transport in covered vehicles. Product packed in soft containers can be transported in open rolling-stock.

**Storage:** In enclosed space preventing from direct sun rays, on shelves or pallets at least 5 cm from the floor, and at least 1 m from heaters.

Information contained herein is provided to the best of our knowledge and is considered true on the revision date. This specification does not release the customer from obligation to check the product as to suitability thereof for the intended application. We do not accept any liability for loss and damage that may occur from the use of this information.