Nordeste Indústria e Comércio LTDA
Rua H, Quadra H, Poloplast, Camaçari - BA
CEP: 42800-970 | Tel.: +55 (71) 3083-4777

# DATA SHEET

# POLYETHYLENE COMPOUND 3639

## Description

A micronized product manufactured with hexene-based polyethylene resin for use in rotational molding processes. Has UV14 ultraviolet resistance, nice surface finish, excellent impact strength, and creep resistance. It can be supplied in natural color or in a wide range of other colors (upon request).

## Use

A versatile product, which can be used in the production of medium and large water tanks, parts with greater mechanical resistance as well as in other general-use products. Product free of heavy metals.

| Physical properties | Standard | Amount | Unit |
|---|---|---|---|
| Density | ASTM D792 | 0.939 | g/cm$^3$ |
| Flow index 2.16 kg | ASTM D1238 | 3.3 | g/10 min |
| Dry fluidity | ASTM D1895 | <30 | sec |
| Elongation at yield (a) | ASTM D638 | 14 | % |
| Elongation at break (a) | ASTM D638 | >1000 | % |
| Tensile strength at yield (a) | ASTM D638 | 21 | MPa |
| Flexural Modulus - 1% Secant (b) | ASTM D790 | 760 | MPa |
| Environmental stress cracking strength - 0.3 mm notch; 50°C; 10% Igepal CO630 (a) | ASTM D1693 | 145 | h/F50 |
| Environmental stress cracking strength - 0.3 mm notch; 50°C; 100% Igepal CO630 (a) | ASTM D1693 | >1000 | h/F50 |
| Deflection temperature under load at 0.455 MPa(b) | ASTM D648 | 60 | °C |
| Deflection temperature under load at 1.82 MPa(b) | ASTM D648 | 41 | °C |
| Impact Strength – Thickness 3.17 mm (c) | ARM | 82 | J |
| Impact Strength – Thickness 6.34 mm (c) | ARM | 228 | J |
| OIT | ASTM D3895 | 0.939 | min |

Typical properties correspond to average values obtained in the laboratory. Specimens prepared from compression molded sheets made in accordance with ASTM D 4702. Test specimen thickness: b) 2 mm; b) 3 mm; c) Rotomolded plate. Test temperature -40 °C.

## Final considerations

Enepol Compounds reserves the right to suspend or change production of this product at any time.

The information contained in these specifications is provided in good faith and to the best of our knowledge; however, this does not exempt the customer from the responsibility for practical results obtained. For further information or guidance on this product, please consult our technical department. Processing conditions may change the characteristics of the end product.

1. The information presented on this Data Sheet reflects typical values obtained in the laboratory, but should not be considered absolute or guaranteed values. Only the properties and values contained in the Quality Certificate are considered as a guarantee of the product. | 2. For product regulatory information, see the Regulatory Document or contact our Technical Assistance Department. | 3. For information on safety, handling, personal protection, first aid, and waste disposal, see the MSDS. | 4. The values mentioned in this report may be modified at any time without prior notice from Enepol Compounds.