

## DATA SHEET

# POLYETHYLENE COMPOUND 5642

### Description

A micronized product manufactured with hexene-based polyethylene resin for use in rotational molding processes. It has UV16 ultraviolet resistance and an excellent balance between hardness and thermal stabilization. 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-sized water tanks, toys and kayaks, as well as other general-purpose products. Product free from heavy metals.

Physical properties	Standard	Amount	Unit
Density	ASTM D792	0.937	g/cm <sup>3</sup>
Flow index 2.16 kg	ASTM D1238	5	g/10 min
Dry fluidity	ASTM D1895	<30	sec
Elongation at yield (a)	ASTM D638	13	%
Elongation at break (a)	ASTM D638	>1000	%
Tensile strength at yield (a)	ASTM D638	20	MPa
Flexural Modulus - 1% Secant	ASTM D790	740	MPa
Environmental stress cracking strength - 0.3 mm notch; 50°C; 10% Igepal CO630 (a)	ASTM D1693	22	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	59	°C
Deflection temperature under load at 1.82 MPa(b)	ASTM D648	44	°C
Impact Strength – Thickness 3.17 mm (c)	ARM	80	J
Impact Strength – Thickness 6.34 mm (c)	ARM	220	J
OIT	ASTM D3895	>100	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: a) 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.