

ICORENE® 1314

High Performance Hexene PE rotomoulding resin

Density 0.939

MFI 3.0

Excellent balance of stiffness and super-toughness

Extremely easy release and low warpage

Highest stress crack resistance in its class

Excellent UV and AO stabilization

Excellent long term creep resistance



Tough resin for tough jobs

Could this be our toughest resin ever?

In tests, this resin outperformed all previously tested rotomoulding materials for cold temperature impact strength

- ✔ We lowered the MFI to 3 which made it even tougher and longer creep life expectancy under stress
- ✔ At 0.939 density, it can be used easily in all kinds of shapes and designs
- ✔ Environmental stress cracking resistance was the highest we have ever tested for PE in an ICO lab

ICO Polymers®

In partnership with

INEOS

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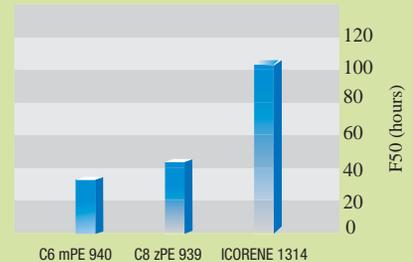
ESCR testing of ICORENE® 1314

We measured the ESCR with the standard test ASTM D1693 using 100% Igepal in our own test laboratory. After 1000 hours there was no sign of any failure so the test was continued to F50 at 1500 hours. In the same test rotomoulding resins of the same density from other suppliers failed at less than 1000 hours.

We made a second test using a method called Full Notch Creep Test (FNCT ISO 16770), and similarly compared it to some competitor resins of the same density and tensile yield stress. This test is a tensile loading test often used as a more reproducible alternative to the Bent Strip test. It was performed at an independent lab with customer made rotomoulded samples. Results are shown in the adjacent chart

Dart Impact strength at freezing temperatures. We moulded tanks and tested 6mm rotomoulded plaques at -40C. Total energy to failure shows ICORENE® 1314 to have incredible low temperature toughness.

FNCT (Stress fracture time)

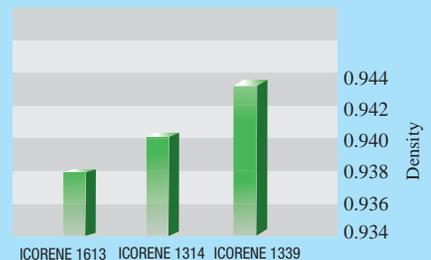


Dart Impact strength independent test



How it compares

ICORENE® 1314 fits exactly between our other two grades. It is even tougher than the high fluidity ICORENE®1613 and more forgiving for moulding large flat surfaces than our super stiff ICORENE® 1339.



Applications

Oil storage tanks
Water tanks
Underground tanks
Materials handling containers

Fish Boxes
Chemical tanks
Large marine products
Agricultural tanks



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