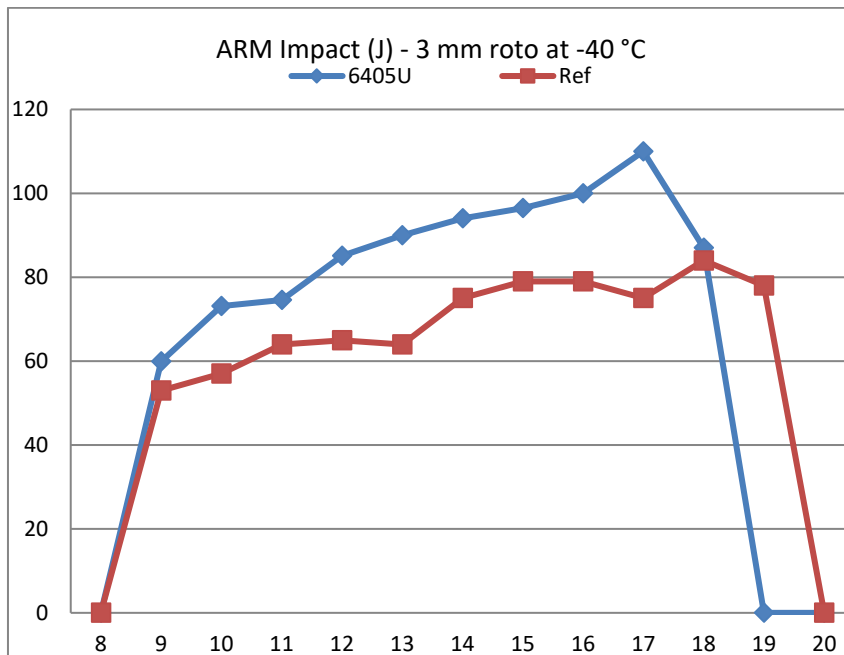


Revolve 6405U

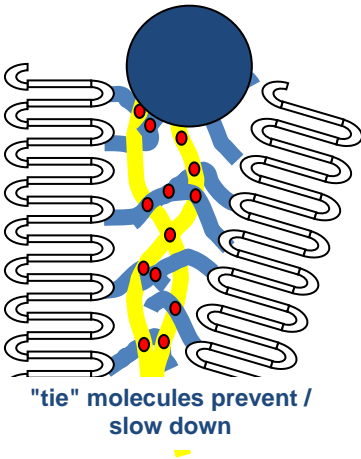
Revolve 6405U is a low density (0.935 g/cm³), low melt (4.0 g/10 min) hexene polyethylene grade for rotomoulding exclusively made for Matrix Polymers. As part of *Designed for Roto* programme the grade was developed to have a wide processing window, outstanding physical properties and consistent long-term performance. The grade is fully protected against thermal and light degradation: 6405U is rated UV15.



Benefits

- Outstanding good impact
- Incredibly tough
- Excellent ESCR
- Excellent chemical resistance
- UV15
- Ductile

The grade Revolve 6405U has been designed to be used in contact with chemicals and aggressive liquids. This is why the grade is based on hexene co-monomer. Monomers are small molecules which may be joined together in a repeating fashion to form more complex molecules called polymers (e.g. Polyethylene): they are the building blocks for PE. The co-monomers are added to PE during the phase of the polymerisation process in order to modify the mechanical and physical properties of PE. The co-monomers therefore create branches on the PE backbone which would generate tie molecules. The higher the number of tie molecules is the better the resistance to chemical is, as shown in the picture below.



Because there are many factors which could influence the material performances and consequently the rotomoulded products that are beyond our direct control, we would like to advise our customers to carry out adequate testes to make sure the material is suitable for the intended application .

For all enquiries please contact your Regional Sales Manager or email us at sales@matrixpolymers.com