ExxonMobil HDPE
HD 6605
Injection Molding Resin

ExxonMobil Chemical

RISERS + COVERS

Product Description

HD 6605 is a narrow molecular weight hexene copolymer designed for a wide range of injection molding applications, offering excellent ESCR with good stiffness-toughness balance. Ideally suited for articles requiring rugged physical performance in cold temperature environments.

Applications

- Waste carts
- Recreational vehicle components
- Industrial closures
- Automotive components

Additive Package	Form	Stabilizer
HD 6605.29	Pellet	UV-8 Protection Package
HD 6605.70	Pellet	Gas Fade Resistant

Resin Properties	Test Based On[2]	Typical Value / Unit
Melt Index	ASTM D-1238 (190°C, 2.16 kg)	5 g/10 min.
Density	ASTM D-4883	0.948 g/cm^3
Melting Point	ASTM D-3418	130 (266) °C (°F)
Crystallization Point	ASTM D-3418	114 (237) °C (°F)
Molded Properties[1]		
Flexural Modulus 1% Secant	ASTM D-790 Procedure B	710 (102,400) MPa (psi)
Tensile Yield Stress	ASTM D-638	23.3 (3360 MPa (psi)
Tensile Break Elongation	ASTM D-638	48 %
Tensile Impact @ -40°C	ASTM D-1822	325 (155) kJ/m^2 (ft-lb$_f$/in^2)
Notched Izod Impact @ -40°C	ASTM D-256	70.5 (1.32) J/m(ft-lb$_f$/in)
Brittleness Temperature	ASTM D-746	< -70 (< -94) °C (°F)
Environmental Stress Crack Resistance, F_{50}	ASTM D-1693 Cond. B, 10%	18 hr
Deflection Temperature @ 66 psi @ 264 psi	ASTM D-648	67 (152) °C (°F) 38 (101)

1. Properties are based on injection molded samples.
2. Test procedures may be modified to accommodate operating conditions or facility limitations.

HD 6605 grade - in principle - can be used in food contact applications in the USA (FDA) and in Canada (HPB). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.