

ExxonMobil® HD 6601.29

HD 6601 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.

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in ³	ASTM D1505

ESCR 10% Igepal®	20 hour	20 hour	F ₅₀ ; ASTM D1693B
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 190 °C	5.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.4 MPa	3400 psi	ASTM D638

Elongation at Break	1000 %	1000 %	ExxonMobil Method
Flexural Modulus	0.965 GPa	140 ksi	2% secant; ASTM D790B

Flexural Modulus, 1% Secant	1100 MPa	160000 psi	ASTM D790B
Izod Impact, Notched	0.534 J/cm @Temperature -40.0 °C	1.00 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	130 °C	266 °F	Peak; ASTM D3418

Deflection Temperature at 0.46 MPa (66 psi)	68.9 °C	156 °F	unannealed; ASTM D648
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Deflection Temperature at 1.8 MPa (264 psi)	42.2 °C	108 °F	unannealed; ASTM D648
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