

ExxonMobil® HD 6605.70

Product Description: HD 6605.70 is a narrow molecular weight hexane 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 D4883

Environmental Stress Crack Resistance	20 hour	20 hour	Cond. B, 10%; ASTM D1693
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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
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Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.4 MPa	3400 psi	ASTM D638

Elongation at Break	1000 %	1000 %	ASTM D638
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Flexural Modulus	0.965 GPa @Strain 2 %	140 ksi @Strain 2 %	Secant; ASTM D790
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Flexural Modulus, 1% Secant	1100 MPa	160000 psi	ASTM D790
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Izod Impact, Notched	0.534 J/cm @Temperature -40.0 °C	1.00 ft-lb/in @Temperature -40.0 °F	ASTM D256
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Thermal Properties	Metric	English	Comments
Melting Point	130 °C	266 °F	ASTM D3418

Deflection Temperature at 0.46 MPa (66 psi)	67.0 °C	153 °F	ASTM D648
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Deflection Temperature at 1.8 MPa (264 psi)	38.0 °C	100 °F	ASTM D648
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Descriptive Properties	
Features	Gas Fade Resistant
Form	Pellet