

ExxonMobil™ HDPE HD 8760 Series

High Density Polyethylene Resin

Product Description

HD 8760 is a high density hexene copolymer designed to offer outstanding stiffness and processability. This resin is ideally suited for applications that require the optimum balance of stiffness, processability and surface appearance.

General

Additive	- HDP8760.29: Long Term UV-15 Stabilizer: Yes - HD 8760.29: Long Term UV-15 Stabilizer: Yes
Applications	- Consumer Articles - RV tanks

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.948 g/cm ³	0.948 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238 (mod)

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	153 °F	67 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	104 °F	40 °C	ASTM D648
Peak Melting Temperature	266 °F	130 °C	ASTM D3418

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 2.0 in/min (50 mm/min)	3200 psi	22 MPa	ASTM D638
Elongation at Yield (2.0 in/min (50 mm/min))	10 %	10 %	ASTM D638
Flexural Modulus - 1% Secant	150000 psi	1000 MPa	ASTM D790B
Environmental Stress-Crack Resistance			ASTM D1693A
10% Igepal, F50	20 hr	20 hr	
100% Igepal, F50	20 hr	20 hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Impact Strength			ARM
-40°F (-40°C), 0.125 in (3.18 mm)	55 ft·lb	75 J	
-40°F (-40°C), 0.250 in (6.35 mm)	140 ft·lb	190 J	

