

ExxonMobil™ HDPE HD 9830.02

High Density Polyethylene Resin

Product Description

HD 9830.02 is a blow molding grade high density polyethylene copolymer with a bimodal molecular weight distribution. It provides a very good balance of stress crack resistance, stiffness and impact strength with excellent processability due to its next generation branched structure.

General

Additive	▪ Thermal Stabilizer: Yes	▪ Antistatic: No	▪ UV Stabilizer: No
Applications	▪ Blow Molding	▪ Personal Care	
	▪ Drainage Pipes	▪ Sheet Extrusion	
Form(s)	▪ Pellets		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.956 g/cm ³	0.956 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.30 g/10 min	0.30 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Brittleness Temperature	< -76 °F	< -60 °C	ASTM D746
Vicat Softening Temperature	261 °F	127 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	4000 psi	28 MPa	ASTM D638
Tensile Strength at Break	2000 psi	14 MPa	ASTM D638
Flexural Modulus	180000 psi	1200 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	370 hr	370 hr	ASTM D1693B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Impact Strength (73°F (23°C))	130 ft·lb/in ²	260 kJ/m ²	ASTM D1822

