

ExxonMobil™ HDPE HPA 020 Molding

High Density Polyethylene (HMW) Resin

Product Description

HPA 020 is a high molecular weight HDPE resin, characterized by an excellent balance of rigidity, ESCR and impact strength.

General

Availability ¹	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Thermal Stabilizer: Yes		
Applications	• Drainage Pipes • Heavy Gauge Sheet • Large Part Blow Molding • Large Parts & Containers (20 to 100 L) for non-food end uses		
Revision Date	• March 2013		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.952 g/cm ³	0.952 g/cm ³	ExxonMobil Method
High Load Melt Index (190°C/21.6 kg)	9.0 g/10 min	9.0 g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.35 g/10 min	0.35 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	259 °F	126 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Modulus	150000 psi	1000 MPa	ASTM D638
Tensile Stress at 100% 2.0 in/min (50 mm/min)	2030 psi	14.0 MPa	ASTM D638
Tensile Strength at Yield 2.0 in/min (50 mm/min)	3000 psi	21 MPa	ASTM D638
Elongation at Break (2.0 in/min (50 mm/min))	> 100 %	> 100 %	ASTM D638
Environmental Stress-Crack Resistance			ASTM D1693
10% Igepal	330 hr	330 hr	
100% Igepal	> 600 hr	> 600 hr	
Durometer Hardness (Shore D, 15 sec)	61	61	ASTM D2240

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength	8.6 ft-lb/in ²	18 kJ/m ²	ISO 180/1A

Legal Statement

This product is not intended for use in food contact application.

This product is not intended for use in medical applications and should not be used in any such applications.