

ExxonMobil™ HDPE HPA 020 Molding High Density Polyethylene (HMW) Resin

Product Description						
HPA 020 is a high molecular weight HDP	E resin, characterized l	by an excelle	ent balance of rigidity, ESCI	R and impact s	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/cm³	0.952	g/cm³	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 Or	
Vicat Softening Temperature	259	°F	126	°C	ASTM D1525	
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based Or	
Tensile Modulus (0.20 in/min (5.0 mm/min))	150000	psi	1000	MPa	ASTM D638	
Tensile Stress at 100%					ASTM D638	
2.0 in/min (50 mm/min)	2030	psi	14.0	MPa		
Tensile Strength at Yield		-			ASTM D638	
2.0 in/min (50 mm/min)	3000	psi	21	MPa		
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		

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength	8.6 ft·lb/in²	18 kJ/m²	ISO 180/1A

>600 hr

61

>600 hr

61

Legal Statement

100% Igepal

Durometer Hardness (Shore D, 15 sec)

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.

Typical properties: these are not to be construed as specifications.

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ASTM D2240

ExxonMobil Chemical ExxonMobil™ HDPE HPA 020 Molding High Density Polyethylene (HMW) Resin

Processing Statement

The molded properties have been measured on compression molded sheets, prepared according to ASTM D4703 and ASTM D 638. ASTM D 638: Specimen type T1 / thickness 3 mm (118 mil); tensile modulus: speed of testing 5 mm/min (197 mil/min); tensile strength at yield and elongation at break: speed of testing 50 mm/min (1970 mil/min). ASTM D1693: Conditions B, F50, 10 % Igepal and 100 % Igepal

Notes

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance:

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