

# ExxonMobil<sup>™</sup> HDPE HPA 020HD5 Molding High Density Polyethylene (HMW) Resin

#### **Product Description**

HPA 020HD5 is a high molecular weight HDPE resin, characterized by an excellent balance of rigidity, ESCR and impact strength.

General				-	
/ Wallability	<ul> <li>Africa &amp; Middle East</li> </ul>		<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Europe</li> </ul>	
Additive	<ul> <li>Thermal Stabilizer: Y</li> </ul>	es			
	<ul> <li>Drainage Pipes</li> </ul>				
	<ul> <li>Heavy Gauge Sheet</li> </ul>				
	<ul> <li>Large Part Blow Mol</li> </ul>	0			
	5	ners (20 to	100 L) for non-food end use	25	
Revision Date	• 09/15/2016				
Resin Properties	Typical Value	(English)	Typical Value	e (SI)	Test Based On
Density	0.952	g/cm³	0.952	2 g/cm <sup>3</sup>	ASTM D1505
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	5 g/10 min	ASTM D1238
Fhermal	Typical Value	(English)	Typical Value	e (SI)	Test Based On
Vicat Softening Temperature	259	°F	126	°C	ASTM D1525
Molded Properties	Typical Value	(English)	Typical Value	e (SI)	Test Based On
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)	2000	psi	14	k 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	
100% Igepal	> 600	hr	> 600	) hr	
Durometer Hardness (Shore D, 15 sec)	61		61		ASTM D2240
mpact	Typical Value	(English)	Typical Value	e (SI)	Test Based On
Notched Izod Impact Strength	8.6	ft·lb/in²	18	3 kJ/m²	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.

#### **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

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

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

## ExxonMobil™ HDPE HPA 020HD5 Molding

High Density Polyethylene (HMW) Resin

## **E**‰onMobil

### For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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