

# ExxonMobil™ HD 5290HLZ

(Legacy name: ExxonMobil™ HDPE HPA 020HDZ) High Density Polyethylene

### **Product Description**

ExxonMobil™ HD 5290HLZ is a high molecular weight HDPE resin, characterized by an excellent balance of rigidity, ESCR and impact strength.

General						
Availability <sup>1</sup>	<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>					
	<ul> <li>Large Parts &amp; Contain</li> </ul>	iners (20 to	100 L) for non-	food end uses	5	
Revision Date	04/03/2023					
Resin Properties	Typical Value	(English)		Typical Value	(SI)	Test Based On
Density	0.952	g/cm³		0.952	g/cm³	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	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 (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	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
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

#### 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.

Effective Date: 04/03/2023 ExxonMobil Page: 1 of 2

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