

Exceed™ HD 4904

High Density Polyethylene

Product Description

Exceed™ HD 4904 is a blow molding grade high density polyethylene copolymer. It provides an exceptional balance of stress crack resistance, stiffness and impact strength. These properties afford significant opportunities for lightweighting in applications where over 1,000 hour bent strip ESCR is required.

General

Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Europe 	<ul style="list-style-type: none"> Latin America North America 	
Additive	<ul style="list-style-type: none"> Thermal Stabilizer: Yes 		
Applications	<ul style="list-style-type: none"> Agricultural Products Containers 	<ul style="list-style-type: none"> Food Packaging Household and Industrial chemical containers 	<ul style="list-style-type: none"> Pharmaceutical Packaging
Form(s)	<ul style="list-style-type: none"> Pellets 		
Revision Date	<ul style="list-style-type: none"> 05/24/2023 		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.949 g/cm ³	0.949 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.38 g/10 min	0.38 g/10 min	ASTM D1238

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	250 °F	121 °C	ASTM D1525

Molded Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3600 psi	25 MPa	ASTM D638
Flexural Modulus - 1% Secant ²	130000 psi	890 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	1200 hr	1200 hr	ASTM D1693B
Durometer Hardness (Shore D, 15 sec)	60	60	ASTM D2240

Impact

	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength			ISO 179/1eA
-40°F (-40°C)	2.0 ft·lb/in ²	4.1 kJ/m ²	
73°F (23°C)	3.3 ft·lb/in ²	6.9 kJ/m ²	

Legal Statement

This product is not intended for use in fuel systems utilizing biodiesel.

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

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Processing Statement

All physical properties were measured on compression molded specimens.

Notes

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

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.

² @ 0.5 in/min

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