

ExxonMobil™ BA46-055

(Legacy name: Paxon™ BA46-055) High Density Polyethylene

Product Description

ExxonMobil™ BA46-055 is a high molecular weight high density polyethylene copolymer. It possesses a combination of excellent processability, outstanding melt strength, high impact strength, chemical resistance and high stress cracking resistance. It is often used in coex applications.

General					
Availability ¹	Africa & Middle EastEurope		Latin AmericaNorth America		
Additive	Thermal Stabilizer: Yes		Antistatic: No		
Applications	 Automotive Fuel Tanks - Excluding biodiesel Compression Moldings Drums Food Packaging 		 Heavy Gauge Sheet Intermediate Bulk Containers Large Part Blow Molding Portable Fuel Tanks Small Engine Fuel Tanks Thermoformed Parts 		
Form(s)	 Pellets 				
Revision Date	• 08/21/2020				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	7.1	g/cm³		g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	< 0.10	g/10 min	< 0.10	g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6 kg)		g/10 min		g/10 min	ASTM D1238
Fhermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	259	°F	126	°C	ASTM D1525
Peak Melting Temperature	270	°F	132	°C	ExxonMobil Method
Crystallization Peak, Tc	241	°F	116	°C	ExxonMobil Method
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	3500	psi	24	MPa	ASTM D638
Flexural Modulus					
1% Secant : 0.051 in/min (1.3 mm/min)	120000	psi	840	MPa	ASTM D790A
2% Secant	100000	psi	700	MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	> 1000	hr	> 1000	hr	ASTM D1693B
Durometer Hardness (Shore D, 15 sec)	60		60		ASTM D2240
mpact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Charpy Notched Impact Strength	/1	. 5 /	/1	,	ISO 179/1eA
-4°F (-20°C)	11	ft·lb/in²	23	kJ/m²	
73°F (23°C)	14	ft·lb/in²	29	kJ/m²	

Additional Information

All molded properties were measured on compression molded plaques. BA46-055 is NSF® -51 Certified and UL recognized. Contact your ExxonMobil Chemical representative for details.

Legal Statement

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

This product is not intended for use in fuel systems utilizing biodiesel including drum, portable fuel tank and small engine fuel tank applications.

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

Effective Date: 08/21/2020 ExxonMobil Page: 1 of 2

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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.

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

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