

Exceed™ Tough m 4536UV12

Metalocene Polyethylene

Product Description

Exceed™ Tough m 4536UV12 is a metallocene linear low density hexene copolymer. This UV-12 stabilized resin is designed for rotational molding and is ideally suited for applications that require the optimum balance of toughness, stiffness, and processability.

General

Availability ¹	- Africa & Middle East - Asia Pacific	- Europe - Latin America	North America
Additive	Long Term UV 12 Stabilizer: Yes		
Applications	- Bins - Consumer Articles - Containers	- Industrial Parts - Playground Equipment - Toys	Water Tanks
Form(s)	Pellets		
Revision Date	07/13/2026		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.936 g/cm ³	0.936 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	4.5 g/10 min	4.5 g/10 min	ASTM D1238

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed ²	133 °F	56 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed ²	100 °F	38 °C	ASTM D648
Peak Melting Temperature	255 °F	124 °C	ASTM D3418

Molded Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield			ASTM D638
Compression Molded, 2.0 in/min (50 mm/min) ²	2600 psi	18 MPa	
Rotational Molded, 2.0 in/min (50 mm/min) ³	2400 psi	17 MPa	
Elongation at Yield			ASTM D638
Compression Molded, 2.0 in/min (50 mm/min) ²	20 %	20 %	
Rotational Molded, 2.0 in/min (50 mm/min) ³	10 %	10 %	
Flexural Modulus - 1% Secant			
73°F (23°C), Compression Molded, 0.051 in/min (1.3 mm/min) ²	77000 psi	530 MPa	ASTM D790A
73°F (23°C), Compression Molded, 0.51 in/min (13 mm/min) ²	94000 psi	650 MPa	ASTM D790B
73°F (23°C), Rotational Molded, 0.051 in/min (1.3 mm/min) ³	70000 psi	480 MPa	ASTM D790A
73°F (23°C), Rotational Molded, 0.51 in/min (13 mm/min) ³	86000 psi	590 MPa	ASTM D790B
Environmental Stress-Crack Resistance ²			
10% Igepal, F50	350 hr	350 hr	ASTM D1693A
10% Igepal, F50	950 hr	950 hr	ASTM D1693B
100% Igepal, F50	> 1000 hr	> 1000 hr	ASTM D1693A
100% Igepal, F50	> 1000 hr	> 1000 hr	ASTM D1693B

Impact

	Typical Value (English)	Typical Value (SI)	Test Based On
Impact Strength			ARM
-40°F (-40°C), 0.125 in (3.18 mm)	71 ft-lb	96 J	
-40°F (-40°C), 0.250 in (6.35 mm)	175 ft-lb	237 J	

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Metallocene Polyethylene

Legal Statement

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

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

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 Properties were measured on compression molded specimen according to ASTM D4703, Annex 1, procedure C.

³ Properties were measured on rotational molded specimen with 1/8" (3.17 mm) average thickness.

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