

Exceed™ HD 5504

(Legacy name: Paxon™SP5504) High Density Polyethylene

Product Description

Exceed[™] HD 5504 is a blow molding grade high density polyethylene copolymer. It provides an exceptional balance of stress crack resistance, stiffness and impact strength. These properties, coupled with excellent processability on both continuous and intermittent equipment, afford significant opportunities for lightweighting and/or greater use of post-consumer recycle (PCR).

General					
Availability ¹	Africa & Middle EastAsia Pacific		EuropeLatin America	 North 	America
Additive	Thermal Stabilizer: Yes	es			
Applications	Blow MoldingDrainage Pipes		Food PackagingPersonal Care	Sheet Extrusion	
Form(s)	 Pellets 				
Revision Date	• 04/14/2021				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.955	g/cm³	0.955	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.35	g/10 min	0.35	g/10 min	ASTM D1238
Peak Melting Temperature	266	°F	130	°C	ExxonMobil Method
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	255	°F	124	°C	ASTM D1525
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	4000	psi	27	MPa	ASTM D638
Flexural Modulus - 1% Secant (0.050 in/min (1.3 mm/min))	180000	psi	1200	MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	180	hr	180	hr	ASTM D1693
Durometer Hardness (Shore D, 15 sec)	59		59		ASTM D2240
Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Charpy Notched Impact Strength		-	•		ISO 179/1eA
-4°F (-20°C)	2.6	ft·lb/in²	5.4	kJ/m²	
73°F (23°C)	3.9	ft·lb/in²	8.2	kJ/m²	

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.

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

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.

Effective Date: 04/14/2021 ExxonMobil Page: 1 of 2

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