# Exact<sup>™</sup> 5101MX Ethylene-based Plastomer Resin

<b>E</b> ‰onMobil	
Signature Polymers	5

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Product Description			Features	110		
Exact™ 5101MX plastomer resin is an ethylene 1-octene copolymer produced using a proprietary metallocene technology. It exhibits			<ul> <li>Premium low temperature impact modifier</li> </ul>			
	•	<ul> <li>Free-flowing pellets</li> </ul>				
outstanding plastic and elastomeric			Superior toughness and tear s	strength		
toughness. Exact™ 5101MX is desig			1 0	5		
polypropylene and polyethylene in a injection molding, extrusion blow mo						
profile extrustion.	olding, blown and cast him, an	U				
prome exclusion.						
-						
General						
Availability <sup>1</sup>	<ul> <li>Africa &amp; Middle East</li> </ul>		<ul> <li>Europe</li> </ul>	<ul> <li>North</li> </ul>	America	
	<ul> <li>Asia Pacific</li> </ul>		<ul> <li>Latin America</li> </ul>			
Applications	<ul> <li>Compounding and T</li> </ul>	PO	<ul> <li>Injection Molding</li> </ul>	<ul> <li>Shoe s</li> </ul>	ole, foam, and footwear	
	<ul> <li>General purpose elas</li> </ul>	stomer	<ul> <li>Polymer Modification</li> </ul>			
Form(s)	<ul> <li>Pellets</li> </ul>					
Revision Date	• 02/15/2023					
Physical	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil	
		-		-	Method	
Melt Index (190°C/2.16 kg)	1.1	g/10 min	1.1	g/10 min	ASTM D1238	
Hardness	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Durometer Hardness						
Shore A, 15 sec	91		91		ASTM D2240	
Shore D, 15 sec	39		39		ExxonMobil	
,					Method	
Mechanical	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Tensile Stress at 100%	970	psi	6.7	MPa	ExxonMobil	
					Method	
Tensile Stress at 300%	1100	psi	7.6	MPa	ExxonMobil	
					Method	
Elongation at Break <sup>2</sup>	> 800	%	> 800	%	ExxonMobil	
(2.0 in/min (50 mm/min))					Method	
Flexural Modulus - 1% Secant	9900	DSi	68	MPa	ExxonMobil	
		F -			Method	
		-				
Elastomers	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Tear Strength (Die C)	431	lbf/in	75.5	kN/m	ExxonMobil	
					Method	
-					T . R . 10	
[hermal	Typical Value		Typical Value		Test Based On	
Vicat Softening Temperature	195	°F	90.6	°C	ExxonMobil	
					Method	
Peak Melting Temperature	198	°F	92	°C	ExxonMobil	
					Method	

### Legal Statement

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**

Tensile testing was conducted at a crosshead speed of 2 in/min.

## **E**xonMobil

### 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.

<sup>2</sup> All specimens reached extension limit, did not break.

### For additional technical, sales and order assistance: Contact Us

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