Exceed™ 1018 Series Performance Polymer



Product Description

ExceedTM 1018 are ethylene 1-hexene copolymer resins. Films made from ExceedTM 1018 resins have outstanding tensile, impact strength and puncture. These superior strength properties, along with excellent drawability, allow downgauging in bag applications. TnPP is not intentionally added to ExceedTM 1018 resins.

General					
Availability ¹	 Africa & Middle East 		 Europe 	 North 	America
	Asia Pacific Latin America				
Additive	 Exceed[™] 1018MK: Antiblock: 5000 ppm; Slip: 1000 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes Exceed[™] 1018MF: Antiblock: 4500 ppm; Slip: 450 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes Exceed[™] 1018MA: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes Exceed[™] 1018MJ: Antiblock: 4500 ppm; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes Exceed[™] 1018MJ: Antiblock: 2500 ppm; Slip: 800 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes 				
Applications	 Agricultural Film Bag in Box Barrier Food Packag Blown Film Blown Stretch Film Bread Bags Food Packaging 	ing	 Form Fill And Seal Packagin Freezer Film General Packaging Heavy Duty Bags Industrial Packaging Lamination Film Multilayer Packaging Film 	 Packaging Films Premium Trash Bags Stand Up Pouches Trash Bags Trash Can Liners 	
Revision Date	• 07/12/2022				
Resin Properties	Typical Value	(English)	Typical Value	(51)	Test Based On
Density / Specific Gravity		g/cm ³	7.1	g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	1.0	g/10 min		g/10 min	ASTM D1238
Peak Melting Temperature	244	-	118	•	ExxonMobil Method
Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1300	psi		MPa	ASTM D882
Tensile Strength at Yield TD	1300	psi		MPa	ASTM D882
Tensile Strength at Break MD	9400	psi		MPa	ASTM D882
Tensile Strength at Break TD	8400	psi		MPa	ASTM D882
Elongation at Break MD	500	-	500		ASTM D882
Elongation at Break TD	640	%	640		ASTM D882
Secant Modulus MD - 1% Secant	24000	psi		MPa	ASTM D882
Secant Modulus TD - 1% Secant	26000	psi		MPa	ASTM D882
Dart Drop Impact	550	•	550		ASTM D1709A
Elmendorf Tear Strength MD	220	g	220	•	ASTM D1922
Elmendorf Tear Strength TD	370	g	370	5	ASTM D1922
Puncture Force		lbf	59	-	ExxonMobil Method
Puncture Energy	49	in·lb	5.5	J	ExxonMobil Method
Optical Proposition	T		TuttelV/J		Test Dress d Or
Optical Properties	Typical Value	(English)	Typical Value	(51)	Test Based On
Gloss (45°)	43	0/	43	0/	ASTM D2457
Haze	16	%	16	%	ASTM D1003