

Exceed™ 1018 Series

Metallocene Polyethylene Resin

ExxonMobil Chemical

Message:

Edge 1018 resin is a metallocene ethylene-hexene copolymer. The film made of Echd 1018 resin has excellent tensile properties, impact strength and puncture resistance. These excellent strength properties, together with good drawing properties, can achieve plastic bag thinning.

General Information			
Additive	Exceed 1018KA: processing aid; Anti-caking agent (5000 ppm); Heat stabilizer; Sliding agent (1000 ppm)		
	Exceed 1018LA: processing aid; Anti-caking agent (4500 ppm); Heat stabilizer; Sliding agent (450 ppm)		
	Exceed 1018MK: processing aid; Anti-caking agent (5000 ppm); Heat stabilizer; Sliding agent (1000 ppm)		
	Exceed 1018JA: processing aid; Anti-caking agent (4500 ppm); Heat stabilizer		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD	185	MPa	ASTM D882
1% secant, TD	192	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	9.37	MPa	ASTM D882
TD: Yield	9.40	MPa	ASTM D882
MD: Fracture	54.3	MPa	ASTM D882
TD: Fracture	42.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	500	%	ASTM D882
TD: Fracture	600	%	ASTM D882
Dart Drop Impact	460	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	250	g	ASTM D1922
TD	470	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	39		ASTM D2457
Haze	18	%	ASTM D1003
Legal statement			

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