

Exceed™ 4518 Series

Metallocene Polyethylene Resin
ExxonMobil Chemical

Message:

Edge 4518 resin is a metallocene ethylene-ethane copolymer. The film made of Edge 4518 resin has excellent tensile properties, impact resistance and puncture resistance. These excellent properties, together with good stretchability, make it a universal resin suitable for single-layer and multi-layer packaging films and cast stretch films.

General Information			
Additive	Exceed 4518CB: heat stabilizer		
	Exceed 4518PA: heat stabilizer		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD	101	MPa	ASTM D882
1% secant, TD	124	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	8.35	MPa	ASTM D882
TD: Yield	7.34	MPa	ASTM D882
MD: Fracture	66.9	MPa	ASTM D882
TD: Fracture	48.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	500	%	ASTM D882
TD: Fracture	730	%	ASTM D882
Dart Drop Impact	140	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	150	g	ASTM D1922
TD	460	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	87		ASTM D2457
Haze	2.2	%	ASTM D1003
Legal statement			

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