

KMI PE KM-4112

Linear Low Density Polyethylene

KMI Group, Inc.

Message:

KM-4112 is a Butene Copolymer LLDPE resin used in injection molding. Applications include thin wall lids, caps and closures, and compounding. This grade features excellent processability, cold temperature impact resistance, outstanding flexibility and warpage resistance, good organoleptic properties and high surface gloss. KM-4112 also contains a processing antioxidant.

General Information			
Additive	Antioxidation		
Features	Low density		
	Butene comonomer		
	Highlight		
	Copolymer		
	Bending resistance		
	Antioxidation		
	Workability, good		
	Good sensory characteristics		
	Good flexibility		
	Low temperature impact resistance		
Uses	Composite		
	Cover		
	Shield		
	Shell		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.925	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	52	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	10.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	10.3	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	345	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746

Vicat Softening Temperature	87.2	°C	ASTM D1525
Additional Information	Nominal Value	Unit	Test Method
Snake Flow	356	mm	Internal method

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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