Marlex® K203

Low Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

Marlex® K203 is a Low Density Polyethylene material. It is available in Latin America or North America for coextrusion.
Important attributes of Marlex® K203 are:
Good Flexibility
Good Processability
High ESCR (Stress Crack Resistant)
High Molecular Weight
Typical applications include:
Additive/Masterbatch
Caps/Lids/Closures
Coating Applications
Food Contact Applications
Membranes

General Information	
Features	Good Flexibility Good Melt Strength Good Processability High ESCR (Stress Crack Resist.) High Molecular Weight
Uses	Blending Caps Geo Membranes Masterbatch Protective Coverings Sheet
Agency Ratings	ASTM D 4976-PE215 FDA 21 CFR 177.1520(c) 3.1a 2
Forms	Pellets
Processing Method	Coextrusion

Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	15	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
10% Igepal, Compression Molded, F50	> 1500	hr	ASTM D1693B
100% Igepal, Compression Molded, F50	> 1500	hr	ASTM D1693C
SP-NCTL	> 1.4	month	ASTM D5397

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	55		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, Compression Molded)	12.0	MPa	ASTM D638
Tensile Elongation [2] (Break, Compression Molded)	750	%	ASTM D638
Flexural Modulus - Tangent [3] (Compression Molded)	480	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength [4] (Compression Molded)	800	kJ/m^2	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	51.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	104	°C	ASTM D1525 [5]

NOTE	
1.	Type IV, 51 mm/min
2.	Type IV, 51 mm/min
3.	13 mm/min
4.	Type S
5.	Rate A (50°C/h), Loading 1 (10 N)

Recommended distributors for this material

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