Marlex® C513UV

High Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

Marlex® C513UV is a High Density Polyethylene material. It is available in Latin America or North America for blow molding or extrusion.
Important attributes of Marlex® C513UV are:
Food Contact Acceptable
Good Processability
Good UV Resistance
Hexene Comonomer
High ESCR (Stress Crack Resistant)
Typical applications include:
Containers
Agricultural
Food Contact Applications

General Information	
Additive	UV Stabilizer
Features	Food Contact Acceptable Good Impact Resistance Good Processability Good UV Resistance Hexene Comonomer High ESCR (Stress Crack Resist.) Ultra High Molecular Weight
Uses	Agricultural Applications Blown Containers Containers
Agency Ratings	ASTM D 4976-PE235 FDA 21 CFR 177.1520(c) 3.1a 2
Forms	Pellets
Processing Method	Blow Molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	5.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
100% Igepal, Compression Molded, F50	> 2000	hr	ASTM D1693A
100% Igepal, Compression Molded, F50	> 2000	hr	ASTM D1693B

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	61		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, Compression Molded)	24.0	MPa	ASTM D638
Tensile Elongation [2] (Break, Compression Molded)	700	%	ASTM D638
Flexural Modulus - Tangent [3] (Compression Molded)	1070	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength [4] (Compression Molded)	580	kJ/m^2	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	66.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	123	°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

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