Caltex PE C513UV

GS Caltex - High Density Polyethylene

General Information

Product Description

C513UV is a polyethylene product suitable for blow molding. This material is polymerized with a chromium catalyst and it is designed for intermediate bulk container applications that require impact resistance, ESCR, processability, UV stabilization. It is used for intermediate bulk container applications, agricultural containers.

Features:

- ESCR
- UV Stabilization

Typical Customer Applications:

- IBC(Intermediate bulk container)

General		
Additive	• UV Stabilizer	
Features	• Good ESCR (Stress Crack Resist.) • Good Impact Resistance	• Good Processability • UV Stabilized
Uses	• Agricultural Applications	• Containers
Processing Method	• Blow Molding	

Properties [1]

Physical	Typical Value (English)		Typical Value (SI)		Test Method
Density	0.945	g/cm³	0.945	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.2	g/10 min	6.2	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)					ASTM D1693B
100% Igepal, F50	2000	hr	2000	hr	
Mechanical	**Typical Value (English)**		**Typical Value (SI)**		**Test Method**
Tensile Strength (Yield)	3480	psi	24.0	MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	700	%	700	%	ASTM D638
Flexural Modulus [2]	160000	psi	1100	MPa	ASTM D790
Hardness	**Typical Value (English)**		**Typical Value (SI)**		**Test Method**
Durometer Hardness (Shore D)	61		61		ASTM D2240
Thermal	**Typical Value (English)**		**Typical Value (SI)**		**Test Method**
Brittleness Temperature	< -103	°F	< -75.0	°C	ASTM D746
Vicat Softening Temperature	255	°F	124	°C	ASTM D1525

Processing Information

Injection	Typical Value (English)		Typical Value (SI)	
Processing (Melt) Temp	374 to 446	°F	190 to 230	°C
Extrusion	**Typical Value (English)**		**Typical Value (SI)**	
Melt Temperature	374 to 446	°F	190 to 230	°C