



Caltex PE TR571

GS Caltex - High Density Polyethylene

General Information

Product Description

TR571 is a polyethylene product suitable for blow molding. This material is polymerized with a chromium catalyst and it is designed for large blow molded parts that require ESCR, impact resistance, chemical resistance. It is 220L L-ring drums, open top drums, industrial tanks.

Features:

- Impact resistance
- Chemical resistance

Typical Customer Applications:

- 220L L-ring drums
- Open top drums

General

Features	• Chemical Resistant	• Good ESCR (Stress Crack Resist.)	• Good Impact Resistance
Uses	• Drums		
Processing Method	• Blow Molding		

Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.953 g/cm ³	0.953 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	2.5 g/10 min	2.5 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693B
100% Igepal, F50	300 hr	300 hr	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength (Yield)	3920 psi	27.0 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	700 %	700 %	ASTM D638
Flexural Modulus ²	189000 psi	1300 MPa	ASTM D790
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	63	63	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	< -103 °F	< -75.0 °C	ASTM D746
Vicat Softening Temperature	262 °F	128 °C	ASTM D1525

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 hr	2.0 hr
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