

Trithene® SX 7012

Low Density Polyethylene

Petroquímica Triunfo

Message:

The Trithene® SX 7012 is a low density polyethylene (LDPE) which presents good flexibility. It is used in blow molding process for production of small and flexible flasks for medical and pharmaceutical goods. Its easy processability also allows high molding productivity, thickness uniformity, and excellent surface appearance. Trithene® SX 7012 is chemically inert and it presents high stability in the presence of chemical and solvent agents. There are no additives in the product formulation, and during its production are adopted procedures to guarantee high purity level. This product is identified as PE 113 according to ASTM D-4976-04a standard specification.

Applications

Flexible flasks for medical and pharmaceutical goods.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Solvent resistance		
	Workability, good		
	Good flexibility		
	Good chemical resistance		
	Good appearance		
	No additive		
Uses	Bottle		
	Drug packaging		
	Medical/nursing supplies		
Agency Ratings	ASTM D 4976-PE113		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.921 - 0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0 - 1.4	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, Molded	93		ASTM D2240
Shore D, Molded	53		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 5% Secant (Compression Molded)	135	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, molding	10.0	MPa	ASTM D638
Fracture, molding	12.0	MPa	ASTM D638

Tensile Elongation (Break, Compression Molded)	490	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	91.0	°C	ASTM D1525
Melting Temperature	111	°C	
Additional Information	Nominal Value		
CAS Number	9002-88-4		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	165 - 175	°C	
Mold Temperature	15.0	°C	
Injection instructions			

Processing parameters are for blow molding.

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