

Petroquímica Triunfo Trithene® CX 7020 LDPE - Cast Film

Categories: [Polymer](#); [Film](#); [Thermoplastic](#); [Polyethylene \(PE\)](#); [LDPE](#)

Material Notes: The Trithene® CX 7020 resin is a low-density polyethylene (LDPE) with medium molecular weight, excellent processability, and low gel content. Those features allow a production of thin and highly uniform films. This product complies with ASTM standard D1248-IA3.

Applications: Smooth or embossed films for diapers, disposable sheets, etc.; Films for lamination; Injection-Blow Molding.

Resin Properties: Compressed molded plate. Method ASTM D-1928, procedure C. Film obtained on a 50mm blow film line with barrier screw, 25:1 L/D, 1.0mm die gap, 50µm gauge, 2.3:1 BUR.

Information provided by Dax Resinas

Key Words: FDA: 21 CFR 177.1520 (C) 2.1

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	0.922 - 0.924 g/cc	0.0333 - 0.0334 lb/in³	ASTM D1505
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	1.7 - 2.3 g/10 min @Load 2.16 kg, Temperature 190 °C	1.7 - 2.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	93	93	ASTM D2240
Tensile Strength at Break	12.5 MPa	1810 psi	ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	ASTM D638
Film Elongation at Break, MD	365 %	365 %	ASTM D882
Film Elongation at Break, TD	650 %	650 %	ASTM D882
Elongation at Break	550 %	550 %	ASTM D638
Secant Modulus, MD	0.0950 GPa	13.8 ksi	5%; ASTM D882
Secant Modulus, TD	0.100 GPa	14.5 ksi	5%; ASTM D882
Coefficient of Friction, Dynamic	0.65	0.65	ASTM D1894
Elmendorf Tear Strength, MD	8.40 g/micron	213 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	5.60 g/micron	142 g/mil	ASTM D1922
Dart Drop Test	140 g	0.309 lb	(method A); ASTM D1709
Film Tensile Strength at Break, MD	21.0 MPa	3050 psi	ASTM D882
Film Tensile Strength at Break, TD	19.0 MPa	2760 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	94.0 °C	201 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	109 %	109 %	@ 60° Gardner; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	155 - 170 °C	311 - 338 °F	Plasticizing Zone
	165 - 175 °C	329 - 347 °F	Mixture Zone
Feed Temperature	145 - 160 °C	293 - 320 °F	
Adapter Temperature	175 - 190 °C	347 - 374 °F	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.

