ELITE™ 5220G
Enhanced Polyethylene Resin

Overview

- Excellent extensibility
- High impact and puncture resistance
- Excellent on-pallet load elongation for higher yields on regular loads

Complies with:

- U.S. FDA FCN 424
- EU, No 10/2011

Consult the regulations for complete details.

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.915	g/cm³	0.915	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	3.5	g/10 min	3.5	g/10 min	ASTM D1238
Films	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Film Thickness - Tested	1	mil	20	µm	
Film Puncture Energy (0.80 mil (20 µm))	36.0	in·lb	4.07	J	Dow Method
Film Puncture Force					Dow Method
0.80 mil (20 µm)	10.0	lbf	44.5	N	
0.80 mil (20 µm) [1]	11.0	lbf	48.9	N	
Film Puncture Resistance (0.80 mil (20 µm))	323	ft·lb/in³	26.7	J/cm³	Dow Method
Tensile Strength					ASTM D882
MD : Yield, 0.80 mil (20 µm)	1300	psi	8.96	MPa	
TD : Yield, 0.80 mil (20 µm)	1220	psi	8.41	MPa	
MD : Break, 0.80 mil (20 µm)	5800	psi	40.0	MPa	
TD : Break, 0.80 mil (20 µm)	5200	psi	35.9	MPa	
Tensile Elongation					ASTM D882
MD : Break, 0.80 mil (20 µm)	450	%	450	%	
TD : Break, 0.80 mil (20 µm)	650	%	650	%	
Dart Drop Impact (0.80 mil (20 µm))	630	g	630	g	ASTM D1709B
Elmendorf Tear Strength					ASTM D1922
MD : 0.80 mil (20 µm)	390	g	390	g	
TD : 0.80 mil (20 µm)	600	g	600	g	
Ultimate Stretch [2] (0.8 mil (20.3 µm))	300	%	300	%	Dow Method
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Vicat Softening Temperature	210	°F	98.9	°C	ASTM D1525
Melting Temperature (DSC)	253	°F	123	°C	Dow Method
Optical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Gloss (45°, 0.800 mil (20.3 µm))	96		96		ASTM D2457
Haze (0.800 mil (20.3 µm))	0.600	%	0.600	%	ASTM D1003

Extrusion	Nominal Value	(English)	Nominal Value	(SI)
Melt Temperature	520	°F	271	°C

Extrusion Notes

Fabrication Conditions For Cast Film:

- Die Gap: 20 mil (0.50 mm)
- Melt Temperature: 520°F (271°C)
- Air Gap: 3 in. (7.6 cm)
- Haul Off Speed: 600 fpm (183 m/min)