Braskem TU3002 LDPE Blown Film Extrusion Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

Material Notes:

TU3002 is a low-density polyethylene (LDPE) with high molecular weight, excellent mechanical properties (dart drop and Elmendorf tear strength), and good processability. These qualities ensure the production of films with uniform thickness. TU3002 resin is stabilized with a synergistic combination of a hindered amine (HALS) with UV absorbers and antioxidants which warrant high resistance to aging caused by exposure to solar radiation. Films manufactured with TU3002 are colorless and have high light transmission. This product is identified as PE 115 according to ASTM D-4976-04a standard specification. It contains antioxidant and anti-UV additives. Its applications include films for covering greenhouses and agricultural tunnels and films for applications that require high mechanical strength and high resistance to aging from solar radiation (UV radiation exposure). Films manufactured with TU3002 have a minimum duration expectancy of 18 months (two winters and one summer) for continuing use in a greenhouse with a maximum solar radiation of 150 kLy (kcal/cm²/year) and at least 130µm. The suitable durability refers to the retention of at least 50% of the original mechanical resistance of a film produced with pure TU3002. The UV stabilizer used in TU3002 presents great chemical resistance for a range of pesticides, although compounds which have sulfur and halogens can reduce the films' shelf life.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Braskem-TU3002-LDPE-Blown-Film-Extrusion-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in³	ASTM-D792
Melt Flow	0.12 g/10 min @Load 2.16 kg, Temperature 190 °C	0.12 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	570 %	570 %	ASTM-D882
Film Elongation at Break, TD	750 %	750 %	ASTM-D882
Secant Modulus, MD	0.0950 GPa	13.8 ksi	2% Secant Modulus; ASTM-D882
Secant Modulus, TD	0.0900 GPa	13.1 ksi	2% Secant Modulus; ASTM-D882
Elmendorf Tear Strength MD	500 g	500 g	ASTM-D1922
Elmendorf Tear Strength TD	720 g	720 g	ASTM-D1922
Elmendorf Tear Strength, MD	3.33 g/micron	84.6 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	4.80 g/micron	122 g/mil	ASTM-D1922
Dart Drop	2.80 g/micron	71.1 g/mil	ASTM-D1709 (Method B)
Dart Drop Test	420 g	0.926 lb	ASTM-D1709 (Method B)

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	20.0 MPa	2900 psi	ASTM-D882
Film Tensile Strength at Break, TD	23.0 MPa	3340 psi	ASTM-D882

Optical Properties	Metric	English	Comments
Haze	13 %	13 %	ASTM-D1003
Gloss	62 %	62 %	Angle 60°; ASTM-D2457

Processing Properties	Metric	English	Comments
Die Opening	0.100 - 0.150 cm	0.0394 - 0.0591 in	Blow Film Extrusion
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	Blow Film Extrusion

Descriptive Properties	Value	Comments
Mass Temperature (°C)	190-225	Blow Film Extrusion
Temperature Profile (°C)	170-225	Blow Film Extrusion
UV Stabilizer (ppm)	4750-5500	Braskem PE-6

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