EF-2126 S3

LOW DENSITY POLYETHYLENE

QUATTOR

REVISION 00 – JAN/10

Description: Low Density Polyethylene produced under high pressure conditions in an autoclave reactor. It offers excellent processability and outstanding optical properties. This resin contains slip and antiblock additives.

PROCESSES AND TYPICAL APPLICATION

This resin is recommended for use in extrusion of films for general purposes, technical films for automatic packaging and blends with LLDPE.

Recommended processing conditions: Temperature Profile 150 to 165°C, minimum thickness 30 microns single layer, blow up ratio 2,0 to 4,0: 1.

PROPERTIES	VALUE	UNIT	ASTM METHOD
RESIN			
Melt Index (190°C/2,16kg)	2,60	g/10min	D-1238
Density	0,921	g/cm³	D-1505/2839
OPTICAL			
Haze	6,5	%	D-1003
Gloss 60º	10,0	%	D-2457
FILM[A]			
Tensile Strength at Break (MD/TD)	25/18	MPa	D-882
Elongation at Break (MD/TD)	294/1021	%	D-882
1% Secant Modulus (MD/TD)	155/196	MPa	D-882
Elmendorf Tear Resistance (MD/TD)	419/114	gf	D-1922
Dart Impact Resistance	93	gf/50%f	D-1709
Kinetic Coefficient of Friction (COF)	0,09	-	D-1894
MECHANICAL[B]			
Tensile Strength at Break	10	MPa	D-638
Elongation at Break	758	%	D-638
THERMAL			
Melt Temperature	113	°C	D-3417/3418
Vicat Softening Temperature (10N/120°C/h)	90	°C	D-1525

Comments:

[A]: Obtained in 70 mm extruder, blow up ratio 2,2: 1, die gap 1,2 mm and 38 µm thickness.

[B]: According to ASTM-D 4703, annex 1 procedure C.

Final Remarks:

- Quattor reserves the right at any time to stop the production and modify the properties of this product.
- All this information as well as any suggestions and recommendations concerning our products application, are based on the best of our knowledge, and cannot be taken as a guarantee of Quattor, since the conditions for use of the final products are not Quattor's responsibility.
- This document cannot be considered as a warranty, express or implied, including a warranty of commercialization or adjustment for a specific purpose.
- Quattor is not responsible for the addition, by third parties, of additives or other substances in the resins which contains metals or oxy-degradations promoters, considering that it causes loss of the performance of resin described in this document. The use of such substances should require the approval of the package destined to the contact with food and also contaminate the environment when they are discarded in landfills or not appropriated sites.
- For information about handling, security, individual protection, first aids, please check the MSDS (Material Safety Data Sheets) available on the website.

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