

LyondellBasell Hifax[®],^ç A Thermoplastic Polyolefin Elastomer

Category : Polymer , Film , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO) , Polyolefin

Material Notes:

Description: Hifax[®],^ç CA 10 A is a thermoplastic polyolefin which has been developed for the extrusion and calendering of soft film and sheet. Thanks to its high rubber content "Hifax" CA 10 A features low stiffness, low hardness and good impact resistance. The base resin in CA10A meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520(a)(3)(iii) and (c)3.4 for olefin polymers. According to our Basell, all other ingredients used in the above formulation meet their respective FDA regulations and 21 CFR 177.1520(b). CA10A meets the FDA criteria for food contact, including cooking applications. CA10A can be used under conditions of use A through H listed in 21 CFR 176.170(c), Table 2(attached). However, CA10A can only be used in contact with food types I, II, III, IV-B, VI, VII, VIII and IX listed in 21 CFR 176.170(c), Table 1. Uses: Film, sheet, wall panels, wire and cable applications Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-A-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.880 g/cc	0.0318 lb/in ³	ISO 1183
Melt Flow	0.60 g/10 min @Load 2.16 kg, Temperature 230 °C	0.60 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	30	30	ISO 868
Tensile Strength, Yield	6.00 MPa	870 psi	ISO 527-1, -2
Elongation at Break	500 %	500 %	ISO 527-1, -2
Flexural Modulus	0.0800 GPa	11.6 ksi	ISO 178

Thermal Properties	Metric	English	Comments
Melting Point	142 °C	288 °F	MTM 15902
Deflection Temperature at 0.46 MPa (66 psi)	43.9 °C	111 °F	ISO 75B-1, -2
Vicat Softening Point	56.1 °C	133 °F	A50 (50°C/h 10 N); ISO 306

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