

LyondellBasell Petrothene[®] NA373244 Low Density Polyethylene, Cast/Blown Film Grade

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

Material Notes:

ApplicationsPetrothene NA373 is a series of homopolymer resins selected by customers for use in household film and other applications that require high clarity and good impact strength combined with low COF.
Regulatory StatusThe basic NA373 resin meets the requirements of the Food and Drug Administration, regulation 21 CFR 177.1520.
Processing TechniquesSpecific recommendations for processing NA373 resins can only be made when the processing conditions, equipment and end use are known.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA373244-Low-Density-Polyethylene-CastBlown-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM D1505
Thickness	31.8 microns	1.25 mil	Cast, as tested
	31.8 microns	1.25 mil	Blown, as tested
Melt Flow	3.0 g/10 min	3.0 g/10 min	ASTM D1238
Antiblock Level	6000 ppm	6000 ppm	
Slip Level	1600 ppm	1600 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.38 MPa	1360 psi	Cast; ASTM D822
	10.9 MPa	1580 psi	Blown; ASTM D822
Film Tensile Strength at Yield, TD	9.31 MPa	1350 psi	Cast; ASTM D822
	10.7 MPa	1550 psi	Blown; ASTM D822
Film Elongation at Break, MD	200 %	200 %	Blown; ASTM D822
	230 %	230 %	Cast; ASTM D822
Film Elongation at Break, TD	500 %	500 %	Blown; ASTM D822
	610 %	610 %	Cast; ASTM D822
Elmendorf Tear Strength MD	270 g	270 g	Blown; ASTM D1922
	300 g	300 g	Cast; ASTM D1922
Elmendorf Tear Strength TD	160 g	160 g	Cast; ASTM D1922

Mechanical Properties	170 g Metric	170 g English	Blown; ASTM D1922 Comments
Dart Drop Test	65.0 g	0.143 lb	Blown; ASTM D1709, F₅₀
	110 g	0.243 lb	Cast; ASTM D1709, F₅₀
Film Tensile Strength at Break, MD	18.6 MPa	2700 psi	Blown; ASTM D822
	29.1 MPa	4220 psi	Cast; ASTM D822
Film Tensile Strength at Break, TD	17.0 MPa	2470 psi	Cast; ASTM D822
	17.2 MPa	2500 psi	Blown; ASTM D822
1% Secant Modulus, MD	159 MPa	23000 psi	Blown; ASTM D882
	208 MPa	30200 psi	Cast; ASTM D882
1% Secant Modulus, TD	172 MPa	25000 psi	Blown; ASTM D882
	197 MPa	28600 psi	Cast; ASTM D882

Optical Properties	Metric	English	Comments
Haze	3.4 %	3.4 %	Cast; ASTM D1003
	5.4 %	5.4 %	Blown; ASTM D1003
Gloss	70 %	70 %	Blown, 45°; ASTM D2457
	77 %	77 %	Cast, 45°; ASTM D2457

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Processing Properties	Metric	English	Comments
Melt Temperature	191 °C	375 °F	Blown
	260 °C	500 °F	Cast

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