

DOW[™] MDPE NG6995 Medium Density Polyethylene Resin

Overview

MPDE NG 6995 is a Medium Density Polyethylene Resin produced in the Gas Phase technology. It is designed for blown film applications providing good processability and seal properties. It offers good tear and impact resistance.

Main Characteristics:

- Monolayer and multilayer blown film
- General purpose bags
- Complies with:
 - U.S. FDA 21 CFR 177.1520 (c) 3.2a
 - European Commission Regulation (EU) No 10/2011
- Consult the regulation for complete details.

Additive • Antiblock: No	Slip: No		Processing Aid: No		
Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.939	g/cm³	0.939	g/cm³	ASTM D792
Melt Index					ASTM D1238
190°C/5.0 kg	0.38	g/10 min	0.38	g/10 min	
190°C/21.6 kg	11	g/10 min	11	g/10 min	
Mechanical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Strength					ASTM D638
Yield, Compression Molded	2870	psi	19.8	MPa	
Break, Compression Molded	4890	psi	33.7	MPa	
Tensile Elongation					ASTM D638
Break, Compression Molded	1000	%	1000	%	
Flexural Modulus (Compression Molded)	123000	psi	850	MPa	ASTM D790
Films	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Film Thickness - Tested	1	mil	15	μm	
Film Puncture Resistance	70.0	ft·lb/in³	5.79	J/cm³	ASTM D5748
Secant Modulus					ASTM D882
1% Secant, MD	164000	psi	1130	MPa	
2% Secant, MD	116000	psi	798	MPa	
1% Secant, TD	187000	psi	1290	MPa	
2% Secant, TD	129000	psi	887	MPa	
Tensile Strength					ASTM D882
MD : Yield	2330	psi	16.0	MPa	
TD : Yield	2610	psi	18.0	MPa	
MD : Break	5050	psi	34.8	MPa	
TD : Break	3770	psi	26.0	MPa	
Tensile Elongation					ASTM D882
MD : Break	310	%	310	%	
TD : Break	610	%	610	%	
Dart Drop Impact	100	g	100	g	ASTM D1709
Elmendorf Tear Strength					ASTM D1922
MD	10	g	10	g	
TD	270	g	270	g	
Impact	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Notched Izod Impact (Compression Molded)	1.4	ft·lb/in	76	J/m	ASTM D256

Hardness	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Durometer Hardness					ASTM D2240
Shore D, Compression Molded	68		68		
Optical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Gloss (45°)	12		12		ASTM D2457
Haze	62.0	%	62.0	%	ASTM D1003
Extrusion	Nominal Value	(English)	Nominal Value	(SI)	
Melt Temperature	409	°F	209	°C	
Extrusion Notes					
Die Gap: 1.2 Mm					
Blow-up Ratio: 3.6					
Output: 7.5 kg/h					
Die Temperature: 437°F					
Melt Temperature: 409°F					
Temperture Profile: 356-392-419-437°F					

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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