AT 505

Low Density Polyethylene

Celanese EVA Performance Polymers

Message:

A high strength resin, recommended for shrink films and general purpose packaging.

General Information			
Features	Good melt strength Compliance of Food Exposure		
Uses	Packaging Shrinkable film General		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.924	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
secant modulus			ASTM D882
1% secant, MD: 150 µm	200	MPa	ASTM D882
1% secant, TD: 150 µm	220	MPa	ASTM D882
Tensile Strength [1]			ASTM D882
MD: Yield, 150 µm	11.0	MPa	ASTM D882
TD: Yield, 150 µm	11.0	MPa	ASTM D882
MD: Break, 150 µm	21.0	MPa	ASTM D882
TD: Break, 150 µm	21.0	MPa	ASTM D882
Tensile Elongation [2]			ASTM D882
MD: Break, 150 µm	580	%	ASTM D882
TD: Break, 150 µm	670	%	ASTM D882
Dart Drop Impact [3] (150 µm)	300	g	ASTM D1709
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	112	°C	DSC
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 150 µm)	35		ASTM D2457
Haze (150 µm)	20	%	ASTM D1003
Additional Information			

The value listed as Density-Specific Gravity, ASTM D1505, was tested in accordance with ASTM D1928 ProcC Mod.

Extrusion	Nominal Value	Unit
Melt Temperature	170 - 230	°C
NOTE		
1.	500 mm/min	
2.	500 mm/min	
3.	F50	

Recommended distributors for this material

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