

AT 7110

Low Density Polyethylene

Celanese EVA Performance Polymers

Message:

AT® 7110 is a low density polyethylene (LDPE) homopolymer. This polymer complies with the requirements of USP PLASTIC Class VI with regard to biocompatibility and CFR 21 177.1520 of the Food and Drug Administration (FDA) subject to extraction limitations for specific end use applications. This polymer may be processed using conventional polymer processing equipments including extrusion, injection molding, thermoforming, blown film and blow filled seal (BFS) processes. AT® 7110 is used as packaging material for food, nutrient and pharmaceutical ingredients, as well as in applications involving devices and implants.

General Information			
Features	High strength		
	Compliance of Food Exposure		
Uses	Blown Containers		
	Container		
	Small bottle		
	Medical/nursing supplies		
	Medical packaging		
Agency Ratings	FDA 21 CFR 177.1520		
	USP Class VI		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	20.0	MPa	ASTM D638
Tensile Elongation ² (Break)	600	%	ASTM D638
Flexural Modulus - 1% Secant	269	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	99.6	°C	ASTM D1525
Melting Temperature	114	°C	DSC
Additional Information			
The value listed as Density ASTM D1505, was also tested in accordance with ASTM D1928 ProcC Mod.			
NOTE			
1.	Type 4, 50mm/min		

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