

Braskem PE TX7003

Low Density Polyethylene

Braskem

Message:

TX7003 is a low-density, high molecular-weight polyethylene that offers high mechanical strength. The product's characteristics allow for a high versatility and use in various applications due to its easy processing and high compatibility with other types of polyethylene. TX7003 resin shows excellent performance with conventional extruders and low energy consumption during processing, which allows producing packaging with dimensional uniformity and excellent surface finishing. This product is identified as PE 115 according to ASTM D-4976-04a standard specification.

General Information			
Features	Good Dimensional Stability		
	Good Processability		
	Good Surface Finish		
	High Molecular Weight		
	High Strength		
Uses	Blending		
	Film		
	Heavy-duty Bags		
	Industrial Applications		
	Packaging		
	Shrink Wrap		
Agency Ratings	ASTM D 4976-PE115		
	FDA 21 CFR 177.1520		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.27	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	ASTM D882
Secant Modulus			
2% Secant, MD : 50 µm, Blown Film	140	MPa	
2% Secant, TD : 50 µm, Blown Film	150	MPa	ASTM D882
Tensile Strength			
MD : Break, 50 µm,Blown Film	30.0	MPa	
TD : Break, 50 µm,Blown Film	25.0	MPa	

Tensile Elongation			ASTM D882
MD : Break, 50 μm,Blown Film	370	%	
TD : Break, 50 μm,Blown Film	680	%	
Dart Drop Impact (50 μm, Blown Film)	190	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 50 μm, Blown Film	300	g	
TD : 50 μm, Blown Film	220	g	
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°, 50.0 μm, Blown Film	47		
60°, 50.0 μm, Blown Film	69		
Haze (50.0 μm, Blown Film)	12	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 205	°C	

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