

Braskem PE TS7003

Low Density Polyethylene

Braskem

Message:

TS7003 is a low density polyethylene (LDPE) with high molecular weight that offers high mechanical strength and toughness even at low temperatures. Additionally, this product is easily processed. The product was developed to meet the requirements for automatic packaging. The additive package provides thermal stability during the extrusion, low coefficient of friction - COF, allowing high productivity on the packaging lines. This product is identified as PE 115 according to ASTM D-4976-04a standard specification.

General Information			
Additive	Antiblock		
	Antioxidant		
	Slip		
Features	Antiblocking		
	Antioxidant		
	Good Processability		
	High Molecular Weight		
	Low Temperature Toughness		
	Slip		
Uses	Film		
	Food Packaging		
	Packaging		
Agency Ratings		ASTM D 4976-PE115	
Processing Method		Film Extrusion	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	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	ASTM D882
Tensile Elongation			

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 (60°, 50.0 µm, Blown Film)	70		ASTM D2457
Haze (50.0 µm, Blown Film)	13	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 205	°C	

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