

ESENTTIA 01H45

Polypropylene Homopolymer

Polipropileno del Caribe S.A.

Message:

Characteristics: Low melt flow rate Homopolymer polypropylene with excellent mechanical properties and color, excellent gage control and high melt strength.
Recommended for: Extrusion of strapping, sheets, Cartonplast, extrusion thermoforming, extrusion blow molding of bottles, injection molding of heels, extrusion and injection molding general purpose applications.

General Information			
Features	Food Contact Acceptable		
	General Purpose		
	Good Gauge Control		
	Good Melt Strength		
	Homopolymer		
	Low Flow		
Uses	Bottles		
	Footwear		
	General Purpose		
	Sheet		
	Strapping		
Agency Ratings	EC 1907/2006 (REACH)		
	EC 1935/2004		
	EC 2023/2006		
	EU 10/2011		
	FDA 21 CFR 177.1520(a)(3)(i)(c)(1)		
	FDA 21 CFR 177.1520(b)		
Forms	FDA 21 CFR 177.1520(c) 3.1a		
	Pellets		
Processing Method	Extrusion		
	Extrusion Blow Molding		
	Injection Molding		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	0.65	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.20 mm, Injection Molded)	33.4	MPa	ASTM D638
Tensile Elongation ³ (Yield, 3.20 mm, Injection Molded)	11	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (3.20 mm, Injection Molded)	1380	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	56	J/m	ASTM D256A
NOTE			
1.	Procedure B		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	Type I, 1.3 mm/min		

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