

ESENTTIA 01C25

Polypropylene Impact Copolymer

Polipropileno del Caribe S.A.

Message:

Characteristics: Low melt flow rate Impact Block Copolymer polypropylene; very high impact/stiffness balance.
Recommended for: Compounding for the automotive industry; sheet extrusion, Cartonplast; high volume extrusion blow molding containers; extrusion thermoforming of containers that require conservation at temperatures below 0°C; extrusion and injection molding general purpose applications.

General Information			
Features	Block Copolymer		
	Food Contact Acceptable		
	General Purpose		
	Low Flow		
Uses	Automotive Applications		
	Compounding		
	Containers		
	General Purpose		
	Sheet		
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)		
	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Compounding		
	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)	0.70	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ² (Yield, 3.20 mm, Injection Molded)	24.1	MPa	ASTM D638
Tensile Elongation ³ (Yield, 3.20 mm, Injection Molded)	10	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (3.20 mm, Injection Molded)	1120	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	750	J/m	ASTM D256A
Gardner Impact ⁵ (-30°C, 3.20 mm, Injection Molded)	35.0	J	ASTM D5420
NOTE			
1.	Procedure B		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	Type I, 1.3 mm/min		
5.	Method A		

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