

ESENTTIA 05C06

Polypropylene Impact Copolymer

Polipropileno del Caribe S.A.

Message:

Characteristics: Control reology Impact block copolymer polypropylene; high impact/stiffness balance; good thermal stability and chemicals resistance. Recommended for: Injection molding of batteries cases, buckets, industrial parts, toys, containers; injection and extrusion molding general purpose applications.

General Information	
Features	Block Copolymer
	Controlled Rheology
	Food Contact Acceptable
	General Purpose
	Good Chemical Resistance
	Good Thermal Stability
Uses	Battery Cases
	Containers
	General Purpose
	Industrial Parts
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	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.20 mm, Injection Molded)	22.8	MPa	ASTM D638
Tensile Elongation ³ (Yield, 3.20 mm, Injection Molded)	8.2	%	ASTM D638

Flexural Modulus - 1% Secant ⁴ (3.20 mm, Injection Molded)	1000	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	240	J/m	ASTM D256A
Gardner Impact ⁵ (-30°C, 3.20 mm, Injection Molded)	31.6	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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