

ESENTTIA 45R60CD

Polypropylene Random Copolymer

Polipropileno del Caribe S.A.

Message:

Characteristics: High melt flow rate control reology Random copolymer polypropylene with very good optical properties and easy mold filling; fast cycle time; good impact resistance; with clarify and mold release additives.
Recommended for: High clarity and good impact resistance injection molding housewares; thin walled injection molding package and general purpose applications where clarity is important.

General Information			
Additive	Clarifier		
	Mold Release		
Features	Controlled Rheology		
	Fast Molding Cycle		
	Food Contact Acceptable		
	General Purpose		
	Good Impact Resistance		
	Good Mold Release		
	High Clarity		
	High Flow		
	Opticals		
	Random Copolymer		
Uses	General Purpose		
	Household Goods		
	Thin-walled Packaging		
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	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	47	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.20 mm, Injection Molded)	28.3	MPa	ASTM D638
Tensile Elongation ³ (Yield, 3.20 mm, Injection Molded)	13	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (3.20 mm, Injection Molded)	1070	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	59	J/m	ASTM D256A
Gardner Impact ⁵ (23°C, 3.20 mm, Injection Molded)	33.9	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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