

ESENTTIA 10R10C

Polypropylene Random Copolymer

Polipropileno del Caribe S.A.

Message:

Characteristics: Random copolymer polypropylene with very good optical properties and easy mold filling; good impact resistance; with clarify additive.
Recommended for: High clarity injection molding housewares; injection molding general purpose applications where clarity is important.

General Information			
Additive	Clarifier		
Features	Food Contact Acceptable		
	General Purpose		
	Good Impact Resistance		
	High Clarity		
	Opticals		
	Random Copolymer		
Uses	General Purpose		
	Household Goods		
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)	12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.20 mm, Injection Molded)	27.9	MPa	ASTM D638
Tensile Elongation ³ (Yield, 3.20 mm, Injection Molded)	14	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (3.20 mm, Injection Molded)	1050	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	64	J/m	ASTM D256A


Gardner Impact ⁵ (23°C, 3.20 mm, Injection Molded)		32.8	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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