

ESENTTIA 80R90CD

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; good impact resistance; with clarify and mold release additives.
Recommended for: Short cycles times injection molding thin walls articles with highly transparency and good impact resistance; injection molding of large or general purpose articles where contact transparency is required.

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		
	Thin-walled 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		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	80	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.20 mm, Injection Molded)	24.8	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)	931	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)	37.3	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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