

ESENTTIA 02R01CD

Polypropylene Random Copolymer

Polipropileno del Caribe S.A.

Message:

Characteristics: Random copolymer polypropylene with very good optical properties; very good impact/stiffness balance; consistent processability; excellent transparency; high cleanness; with clarify and mold release additives.
Recommended for: High clarity and good impact resistance of extrusion blow molding and injection blow molding containers; high transparency sheet extrusion and Solid Pressure Phase Forming cups and lids.

General Information			
Additive	Clarifier		
	Mold Release		
Features	Clean/High Purity		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Mold Release		
	High Clarity		
	Opticals		
	Random Copolymer		
Uses	Containers		
	Cups		
	Lids		
	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		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion Blow Molding		
	Injection Blow Molding		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method

Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	1.7	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.20 mm, Injection Molded)	24.5	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)	855	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	460	J/m	ASTM D256A
Gardner Impact ⁵ (23°C, 3.20 mm, Injection Molded)	36.2	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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