

ESENTTIA 03R45C

Polypropylene Random Copolymer

Polipropileno del Caribe S.A.

Message:

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

General Information	
Additive	Clarifier
Features	Clean/High Purity
	Food Contact Acceptable
	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
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.20 mm, Injection Molded)	34.5	MPa	ASTM D638
Tensile Elongation ³ (Yield, 3.20 mm, Injection Molded)	10	%	ASTM D638

Flexural Modulus - 1% Secant ⁴ (3.20 mm, Injection Molded)	1520	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	43	J/m	ASTM D256A
Gardner Impact ⁵ (23°C, 3.20 mm, Injection Molded)	24.9	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

