

# Trilene® RI10HC

Polypropylene Random Copolymer

Chandra Asri Petrochemical

## Message:

RI10HC is a polypropylene ethylene random copolymer with high clarity, for housewares, containers, lids, medical syringes, and general purpose injection molding applications where maximum clarity is desired.  
This grade uses Unipol® polypropylene technology from Union Carbide Corporation with the latest generation of catalyst.

General Information			
Features	General Purpose		
	Good Impact Resistance		
	High Clarity		
	Random Copolymer		
Uses	Containers		
	General Purpose		
	Household Goods		
	Lids		
	Medical/Healthcare Applications		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.895	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	28.0	MPa	ASTM D638
Tensile Elongation (Yield)	14	%	ASTM D638
Flexural Modulus - 1% Secant <sup>2</sup>	1030	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	81	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	85.0	°C	ASTM D648
Vicat Softening Temperature	125	°C	ASTM D1525 <sup>3</sup>
Peak Melting Temperature <sup>4</sup>	146	°C	ASTM D3418
Injection	Nominal Value	Unit	

Processing (Melt) Temp	230 to 240	°C
Mold Temperature	20.0 to 40.0	°C
NOTE		
1.	50 mm/min	
2.	1.3 mm/min	
3.	Rate B (120°C/h)	
4.	10°C/min, 2nd heat	

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#### Recommended distributors for this material

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