

Trilene® RI10HO

Polypropylene Random Copolymer

Chandra Asri Petrochemical

Message:

RI10HO is a polypropylene ethylene random copolymer with good clarity, for housewares, containers, closures, plastic hanger, and general purpose injection molding applications. Where good impact properties is desired.

This grade uses Unipol® polypropylene technology Union Carbide Corporation with the latest generation of catalyst.

General Information			
Features	General Purpose Good Flexibility Good Impact Resistance Good Strength Medium Clarity Random Copolymer		
Uses	Closures Containers General Purpose Household Goods		
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 ³	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)	81		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	27.0	MPa	ASTM D638
Tensile Elongation (Yield)	15	%	ASTM D638
Flexural Modulus - 1% Secant ²	1000	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	88	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 ³
Peak Melting Temperature ⁴	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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