

Trilene® BI5.0GA

Polypropylene Impact Copolymer

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Message:

Trilene BI5.0GA is an Impact Copolymer Polypropylene (ICP) for plastic pallet, pail for paint container, automotive, electrical and general purpose injection molding application requiring good impact strength.
This grade uses Unipol® polypropylene technology with latest catalyst technology.

General Information			
Features	General Purpose		
	High Impact Resistance		
	Impact Copolymer		
	Medium Flow		
Uses	Automotive Applications		
	Containers		
	Electrical/Electronic Applications		
	General Purpose		
	Pails		
	Pallets		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	77		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	26.0	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus - 1% Secant ²	1030	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	100	°C	ASTM D648
Vicat Softening Temperature	148	°C	ASTM D1525 ³
Peak Melting Temperature ⁴	163	°C	ASTM D3418

Injection	Nominal Value	Unit
Processing (Melt) Temp	220 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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