

Trilene® BI32AN

Polypropylene Impact Copolymer

Chandra Asri Petrochemical

Message:

Trilene BI32AN is a nucleated Impact Copolymer Polypropylene (ICP) for electronic appliances, automotive and general purpose applications requiring high flow and impact strength. This grade is nucleated to provide lower warpage, greater modulus, and faster cycle time. This grade uses Unipol® polypropylene technology with latest catalyst technology.

General Information			
Additive	Nucleating Agent		
Features	Fast Molding Cycle		
	General Purpose		
	High Flow		
	High Impact Resistance		
	High Stiffness		
	Impact Copolymer		
	Low Warpage		
	Nucleated		
Uses	Appliances		
	Automotive Applications		
	Electrical/Electronic Applications		
	General Purpose		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
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)	32	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 ¹ (Yield)	29.0	MPa	ASTM D638
Tensile Elongation (Yield)	11	%	ASTM D638
Flexural Modulus - 1% Secant ²	1300	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	105	°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	200 to 240	°C	
Mold Temperature	20.0 to 50.0	°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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