

REPOL® AER003N

Polypropylene Random Copolymer

Reliance Industries Limited

Message:

Repol AER003N is recommended for pipes for pressure applications, sheets for thermoforming and extrusion blow moulding.

General Information			
Features	Food Contact Acceptable		
Uses	Blow Molding Applications		
	Fittings		
	Piping		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10909		
	IS 10910		
Processing Method	Extrusion Blow Molding		
	Pipe Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/2.16 kg	0.30	g/10 min	
230°C/5.0 kg	1.0	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	27.0	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield, Injection Molded	14	%	
Break, Injection Molded	> 500	%	
Flexural Modulus - 1% Secant (Injection Molded)	850	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	92.0	°C	ASTM D648
Vicat Softening Temperature	130	°C	ASTM D1525
NOTE			

1.	Type I, 50 mm/min
2.	Type I, 50 mm/min

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