

# RELENE® E 41003

High Density Polyethylene

Reliance Industries Limited

## Message:

Relene E 41003 is a High Density Polyethylene grade with broad molecular weight distribution and good melt strength, suitable for making pipes for water supply, irrigation, sewage and industrial effluent as per IS 4984:1995, IS 14151:1995 and IS 14333:1996 respectively. The designation for Relene E 41003 as per IS 7328:1992 is PEEAA-45-T-012.

General Information			
Features	Med.-Wide Molecular Weight Distrib.		
Uses	Industrial Applications Piping		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.943	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.28	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Injection Molded	20.0	MPa	
Ultimate, Injection Molded	24.0	MPa	
Tensile Elongation (Break, Injection Molded)	500	%	ASTM D638
Flexural Modulus (Injection Molded)	700	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ASTM D1525

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## Recommended distributors for this material

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