

RECLAIR® R 35042

Medium Density Polyethylene

Reliance Industries Limited

Message:

Reclair R 35042, is a medium density polyethylene grade designed for rotational moulding applications. Reclair R 35042 can be used for producing chemical tanks, water storage tanks, loft tanks, milk cans and pallets. Due to the medium density or resin, articles exhibit good toughness, impact resistance and environmental stress-crack resistance (ESCR).

General Information			
Features	Good Impact Resistance		
	Good Toughness		
	High ESCR (Stress Crack Resist.)		
Uses	Industrial Tanks		
	Tanks		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.2	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Injection Molded	14.0	MPa	
Ultimate, Injection Molded	25.0	MPa	
Tensile Elongation (Break, Injection Molded)	930	%	ASTM D638
Flexural Modulus (Injection Molded)	480	MPa	ASTM D790
Flexural Strength (Yield)	15.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	116	°C	ASTM D1525

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