

RELENE® R35042

Medium Density Polyethylene

Reliance Industries Limited

Message:

R35042 is a Medium Density Polyethylene grade designed for rotational moulding applications. R35042 can be used for producing chemical tanks, water storage tanks, loft tanks milk cans and pallets. Due to the medium density of resin, articles exhibit good toughness, impact resistance and Environmental Stress Crack Resistance (ESCR).

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good Toughness		
	High ESCR (Stress Crack Resist.)		
Uses	Tanks		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
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	
Break, Injection Molded	25.0	MPa	
Tensile Elongation (Break, Injection Molded)	930	%	ASTM D638
Flexural Modulus (Injection Molded)	480	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched 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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

