

RECLAIR® O 35042

Medium Density Polyethylene

Reliance Industries Limited

Message:

Reclair O35042, is a Octene comonomer based, Medium Density Polyethylene grade designed for Rotational Moulding applications. Reclair O35042 can be used for producing special products like Automotive components, Diesel Fuel tanks, Chemical tanks, Manholes, Insulated fish crates and pallets. Due to the Octene comonomer and medium density of resin, articles exhibit excellent toughness, impact resistance and environmental stress-crack resistance (ESCR).

General Information			
Features	Good Impact Resistance		
	Good Toughness		
	High ESCR (Stress Crack Resist.)		
	Octene Comonomer		
Uses	Automotive Applications		
	Crates		
	Industrial Tanks		
	Tanks		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.933	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Injection Molded	15.0	MPa	
Ultimate, Injection Molded	27.0	MPa	
Tensile Elongation (Break, Injection Molded)	950	%	ASTM D638
Flexural Modulus (Injection Molded)	500	MPa	ASTM D790
Flexural Strength (Yield)	17.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	650	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	115	°C	ASTM D1525

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Recommended distributors for this material

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

