

RELENE® O35042

Linear Low Density Polyethylene

Reliance Industries Limited

Message:

O35042, is a octene copolymer based Medium Density Polyethylene grade designed for rotational moulding applications. 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	Food Contact Acceptable		
	Good Impact Resistance		
	Good Toughness		
	High ESCR (Stress Crack Resist.)		
	Medium Density		
	Octene Comonomer		
Uses	Automotive Applications		
	Crates		
	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	0.933	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	
Break, Injection Molded	27.0	MPa	
Tensile Elongation (Break, Injection Molded)	950	%	ASTM D638
Flexural Modulus (Injection Molded)	500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (Injection Molded)	650	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

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