

# RELENE® L 60040

High Density Polyethylene

Reliance Industries Limited

## Message:

Relene L 60040 is a UV stabilised narrow molecular weight distribution high density polyethylene grade suitable for injection molding applications. This grade exhibits very high impact strength, high gloss, good dimensional stability and superior ESCR properties. Relene L 60040 is recommended for applications where articles are exposed to sunlight like jumbo crates for fisheries, helmets, paint-pails, etc.

General Information			
Additive	UV Stabilizer		
Features	Good Dimensional Stability		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Gloss		
	Narrow Molecular Weight Distribution		
	Ultra High Impact Resistance		
Uses	Crates		
	Pails		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	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 (Yield, Injection Molded)	25.0	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	900	%	ASTM D638
Flexural Modulus (Injection Molded)	950	MPa	ASTM D790
Flexural Strength (Yield)	30.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 to 270	°C	

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Recommended distributors for this material

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