

# Safrene® D 7255HL

High Density Polyethylene

Safripol (PTY) LTD

## Message:

Safrene® D 7255HL Polyethylene Resins is an injection moulding grade with good mechanical strength, high stiffness, good environmental stress-crack resistance and low distortion tendency. It is particularly suitable for durable thick walled articles.

Safrene® D 7255HL Polyethylene Resin is stabilized against UV degradation.

General Information			
Additive	UV Stabilizer		
Features	Durable		
	Food Contact Acceptable		
	Good Strength		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Stiffness		
Uses	Warp Resistant		
	Closures		
	Containers		
	Crates		
	Drums		
Agency Ratings	Thick-walled Parts		
	EU 10/2011		
Processing Method	FDA 21 CFR 177.1520(c) 3.2a		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.949	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	3.0	g/10 min	
190°C/5.0 kg	11	g/10 min	
Spiral Flow	39.0	cm	Internal Method
Viscosity Number (Reduced Viscosity)	160.0	ml/g	ISO 1628
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, Compression Molded	26.0	MPa	

Break, Compression Molded	30.0	MPa	
Tensile Strain (Break, Compression Molded)	> 600	%	ISO 527-2/50
Flexural Stress (3.5% Strain, Compression Molded)	22.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C, Compression Molded	5.0	kJ/m <sup>2</sup>	
23°C, Compression Molded	5.0	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	70.0	°C	ISO 306/B
Peak Crystallization Temperature (DSC)	130 to 133	°C	ISO 3146
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 260	°C	
NOTE			
1.	Unannealed		

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#### Recommended distributors for this material

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