

# RELENE® M60075

High Density Polyethylene  
Reliance Industries Limited

Message:

M60075 is a High Density Polyethylene (HDPE) grade suitable for injection moulding applications where good mechanical properties are essential with gloss, dimensional stability, good ESCR, required for technical mouldings like moulded crates, luggage shells, helmets, defence applications, etc.

General Information			
Features	Food Contact Acceptable		
	Good Dimensional Stability		
	High ESCR (Stress Crack Resist.)		
	High Gloss		
Uses	Containers		
	Crates		
	Industrial Applications		
	Luggage		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
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)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	69		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	25.0	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	800	%	ASTM D638
Flexural Modulus (Injection Molded)	900	MPa	ASTM D790
Flexural Strength (Yield, Injection Molded)	30.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°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

