

RELENE® HD53MA020

High Density Polyethylene
Reliance Industries Limited

Message:

HD53MA020 is a low MI High Density Polyethylene grade, specially designed and recommended for manufacture of technical moulding articles such as caps and closures for various applications. It has a very narrow molecular weight distribution, which makes it very much suitable for injection moulding and products manufactured have very good gloss, impact strength and rigidity.

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	High Gloss		
	High Rigidity		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	26.0	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	800	%	ASTM D638
Flexural Modulus (Injection Molded)	1000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	121	°C	ASTM D1525

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Recommended distributors for this material

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