

RELENE® HD50MA180

High Density Polyethylene
Reliance Industries Limited

Message:

HD50MA180 is a high flow High Density Polyethylene (HDPE) grade. This grade is specially formulated to manufacture large, intricate, thin walled multi cavity injection moulded products. It has narrow molecular weight distribution, which makes it easier to process and products manufactured have good gloss and rigidity.

General Information			
Features	Food Contact Acceptable		
	High Flow		
	High Gloss		
	High Rigidity		
	Narrow Molecular Weight Distribution		
Uses	Household Goods		
	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	22.0	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	12	%	ASTM D638
Flexural Modulus (Injection Molded)	900	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	123	°C	ASTM D1525

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