

PETLIN LD M050X

Low Density Polyethylene

PETLIN (MALAYSIA) SDN BHD

Message:

PETLIN LD M050X is a low density polyethylene resin designed primarily for injection molding applications. It is produced by the state-of-the-art DSM Stamicarbon tubular process. It contains antioxidant (BHT free).

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	High Flow		
	High Gloss		
	Low Gel		
Uses	Coating Applications		
	Household Goods		
	Lids		
	Masterbatch		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	50	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	0.500	hr	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	43		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	168	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	8.00	MPa	
Break	7.00	MPa	
Tensile Strain (Break)	200	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	73.0	MPa	
1000 hr	38.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A

-30°C	5.0	kJ/m ²	
23°C	41	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	78.0	°C	ISO 306
Melting Temperature (DSC)	104	°C	DIN 53765
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 210	°C	

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