烟台龙义兴高分子材料有限公司
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LLDPE M500026T

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

M500026T is a Linear Low Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to give excellent flow properties with better low temperature toughness, stress crack resistance and gloss.

TYPICAL PROPERTY VALUES

Revision 20220507

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	926	kg/m³	ASTM D1505
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	50	g/10 min	ASTM D1238
MECHANICAL PROPERTIES			
Flexural Strength	9	MPa	ASTM D790
Flexural Modulus (1% Secant)	200	MPa	ASTM D790 A
Izod Impact Strength	500	J/m	ASTM D256
Hardness (Shore D)	50	-	ASTM D2240
ESCR (10% Igepal), F50	3	Hrs	ASTM D1693B
ESCR (100% Igepal), F50	6	Hrs	ASTM D1693B
Tensile stress at yield (50mm/min)	10	MPa	ISO 527-2 1A
Tensile stress at break (5mm/min)	12	MPa	ISO 527-2 1A
Tensile strain at break (5mm/min)	>100	%	ISO 527-2 1A
THERMAL PROPERTIES			
Vicat Softening Point	88	°C	ASTM D1525
Brittleness Temperature	<-75	°C	ASTM D746

PROCESSING CONDITIONS

Typical processing conditions for M500026T are: Barrel temperature: 180 - 230°C Mold temperature: 15 - 60 °C Injection pressure: 600 - 1000 Bar

HEALTH AND SAFETY CONSIDERATIONS AND PRECAUTIONS

M500026T is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate. DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical/medical applications.

STORAGE AND HANDLING

Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.