

RheTech Products E206-01 Linear Low Density Polyethylene, Black

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Injection Molded

Material Notes:

Applications: Flexible components Consumer Goods Injection molding conditions reported in table. Information provided by RheTech Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_RheTech-Products-E206-01-Linear-Low-Density-Polyethylene-Black.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.929 g/cc	0.929 g/cc	23/23°C; ASTM D792
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	ASTM D955
Melt Flow	35 g/10 min @Load 2.16 kg, Temperature 230 °C	35 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	ASTM D2240
Tensile Strength at Break	10.3 MPa	1500 psi	2 in/min; ASTM D638
Flexural Modulus	0.241 GPa	35.0 ksi	Tangent; ASTM D790
Izod Impact, Notched	8.01 J/cm @Temperature 23.0 °C	15.0 ft-lb/in @Temperature 73.4 °F	ASTM D256
Gardner Impact	22.6 J	16.7 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	57.2 °C	135 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	35.6 °C	96.0 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	138 - 154 °C	280 - 310 °F	
Middle Barrel Temperature	143 - 166 °C	290 - 330 °F	
Front Barrel Temperature	154 - 171 °C	310 - 340 °F	
Nozzle Temperature	149 - 160 °C	300 - 320 °F	

Mold Temperature Processing Properties	15.6 - 26.7 °C Metric	60.0 - 80.0 °F English	Comments
Drying Temperature	37.8 - 48.9 °C	100 - 120 °F	
Dry Time	1 - 2 hour	1 - 2 hour	
Moisture Content	<= 0.050 %	<= 0.050 %	Recommended
Injection Pressure	2.76 - 9.65 MPa	400 - 1400 psi	
Hold Pressure	2.07 - 8.27 MPa	300 - 1200 psi	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	

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