

Iran Petrochemical (PCC) 2004TC37 Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

Material Notes:

LDPE 2004TC37: Light duty film used for very thin films requiring good optical properties for general packaging. Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-2004TC37-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ISO 1183
Melt Flow	4.7 g/10 min	4.7 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	12.0 MPa	1740 psi	ISO R527-1
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ISO R527-1
Elongation at Break	100 %	100 %	ISO 527, MD
	>= 450 %	>= 450 %	ISO 527, TD
Modulus of Elasticity	0.190 GPa	27.6 ksi	TD; ISO R527-1
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Tensile Impact	150 J/cm	281 ft-lb/in	ASTM D4272
Coefficient of Friction	0.20	0.20	ASTM D1894
Tear Strength	30.0 kN/m	171 pli	TD; ISO 6383-2
	80.0 kN/m	456 pli	MD; ISO 6383-2
Film Tensile Strength at Break, MD	27.0 MPa	3920 psi	ISO R527-1
Film Tensile Strength at Break, TD	15.0 MPa	2180 psi	ISO R527-1

Optical Properties	Metric	English	Comments
Haze	9.5 %	9.5 %	ASTM D1003A
Gloss	53 %	53 %	ASTM D2457

Descriptive Properties	Value	Comments
Clarity, mV	23	Sabtec

Descriptive Properties	Value	Comments
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