# COSMOTHENED F108-5

### Low Density Polyethylene

#### TPC, The Polyolefin Company (Singapore) Pte Ltd

#### Message:

COSMOTHENE F108-5 is specially design for excellent shrinkage, toughness and strength. F108-5 is not formulated with slip and antiblocking agent. Shrink film food packaging, heavy duty bag & etc.

Specific Gravity0.921g/cm³ASTMMelt Mass-Flow Rate (MFR)0.40g/10 minASTMMechanicalNominal ValueUnitTestTensile Strength (Break)19.6MPaASTMTensile Elongation (Break)700%ASTMApparent Bending Modulus210MPaASTMFilmsNominal ValueUnitTestFilms Thickness - Tested30µmTestMelting Temperature109°CInter	
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Shrinkable film     Heavy packing bag     Agency Ratings   FDA 21 CFR 177.1520(c) 2.1     Forms   Particle     Processing Method   Extrusion     Physical   Nominal Value   Unit   Test     Specific Gravity   0.921   g/cm³   ASTM     Meth Mass-Flow Rate (MFR)   0.40   g/lomin   ASTM     Mechanical   Nominal Value   Unit   Test     Tensile Strength (Break)   19.6   MPa   ASTM     Aparent Bending Modulus   210   MPa   ASTM     Films   Nominal Value   Unit   Test     Films   30   unit   Test     Film Thickness - Tested   30   unit   Test     Thermal   Nominal Value   Unit   Test     Film Thickness - Tested   30   unit   Test     Film Thickness - Tested   109   °C   Test	
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	Method
Gloss (30.0 μm) 100 AST	M D2457
Haze (30.0 μm) 7.0 % AST	M D1003
Additional Information Nominal Value Unit Test	Method
Blocking (30.0 μm)     20.0     g/100 cm²     ASTM	M D3354
Slip (30.0 μm)     0.900     Tan θ     Inter	nal method
Extrusion Nominal Value Unit	
Cylinder Zone 1 Temp. 155 °C	
Cylinder Zone 2 Temp. 160 °C	
Cylinder Zone 3 Temp. 175 °C	
Melt Temperature 190 °C	

Extruder: 50 mm diameter; L/D: 26; C.R: 3.4H Temperature: 200°C

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