

LNPTM LUBRICOMPTM COMPOUND DFL22

DFL-4022

DESCRIPTION

LNP LUBRICOMP DFL22 compound is based on Polycarbonate (PC) resin containing 10% glass fiber and 10% PTFE. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant
Fillers	Glass Fiber, PTFE
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yld, Type I, 5 mm/min	72	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	68	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	3.5	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	5.5	%	ASTM D638
Tensile Modulus, 50 mm/min	4130	MPa	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	4140	MPa	ASTM D790
Tensile Stress, yield, 5 mm/min	71	MPa	ISO 527
Tensile Stress, break, 5 mm/min	67	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3.3	%	ISO 527
Tensile Strain, break, 5 mm/min	5.8	%	ISO 527
Tensile Modulus, 1 mm/min	4150	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	118	MPa	ISO 178
Flexural Modulus, 2 mm/min	3900	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	736	J/m	ASTM D4812
Izod Impact, notched, 23°C	144	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	23	J	ASTM D3763
Multiaxial Impact	6	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	48	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	13	kJ/m²	ISO 180/1A

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CHEMISTRY THAT MATTERS

Revision 20231109



THERMAL ⁽¹⁾ Field and the set of the set	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HQYeiYeiNoHQ1, AMP, A2mm, unanaled140YeiNationaleHQ1, AMP, A2mm, unanaled160YeiNationaleCTT, 40°C rofow58051/°CSint B31CTL, 40°C rofow58051/°CSint B31CTL, 40°C rofow58051/°CSint B31CTL, 40°C rofow58051/°CSint B32CTL, 40°C rofow13401/°CSint B32CTL, 40°C rofow13401/°CSint B32CTL, 40°C rofow13401/°CSint B32CTL, 40°C rofow101/°CSint B32CTL, 40°C rofow101/°CSint B32CTL, 40°C rofow101/°CSint B32Mother Rofow rofow101/°CSint				
H07, 1.82 MPa, 3.2mm, unannealed140°CATM D648.CTF, 40°C to 40°C, flow5581/°CASM 1883.CTF, 40°C to 40°C, flow5581/°CASM 1833.CTF, 40°C to 40°C, flow5661/°CS0 11359-2CTF, 20°C to 40°C, flow5661/°CS0 11359-2CTF, 20°C to 40°C, flow5661/°CS0 11359-2CTF, 23°C to 60°C, flow5661/°CS0 11359-2H07 (J, 045 MPa Flatw 80°10°4 sp=64mm140°CS0 11359-2H07 (J, 1.8 MPa Flatw 80°10°4 sp=64mm140°CS0 11359-2H07 (J, 1.8 MPa Flatw 80°10°4 sp=64mm1.40°CS0 11359-2H07 (J, 1.8 MPa Flatw 80°10°4 sp=64mm1.40°CS1 MD 570H01 (J, 1.8 MPa Flatw 80°10°4 sp=64mm0.41S1 MD 570H01 Strinkage, stow, 24 hs ⁽¹⁾ 0.41S1 MD 570S1 MD 570H01 Strinkage, stow, 24 hs ⁽¹⁾ 0.50S1 MD 570S1 MD 570H02 Strinkage, stow, 24 hs ⁽¹⁾ 0.51S1 MD 570S1 MD 570H02 Strinkage, stow, 24 hs ⁽¹⁾ 0.52S1 MD 570S1 MD 570H02 Strinkage, stow, 24 hs ⁽¹⁾ 0.37S1 MD 570S1 MD 570H02 Strinkage, stow, 24 hs ⁽¹⁾ 0.37S1 MD 570S1	THERMAL			
CTE, 40°C to 40°C, flowS586051/°CASTM E831CTE, 40°C to 40°C, flow5.66051/°C60 11359-2CTE, 40°C to 40°C, flow5.66051/°C60 11359-2CTE, 40°C to 40°C, flow5.66051/°C60 11359-2CTE, 23°C to 60°C, flow1.40°C60 11359-2CTE, 23°C to 60°C, flow1.40°C60 11359-2CTE, 23°C to 60°C, flow1.40°C60 11359-2PUSICL0.109.605.75/87.678Mold Shrinkape, flow, 24 hs?0.408.605.60Mold Shrinkape, flow, 24 hs?0.408.605.0294Mold Shrinkape, flow, 24 hs?0.508.015.0294Mold Shrinkape, flow, 24 hs?0.518.015.0294Mold Shrinkape, flow, 24 hs?0.528.015.0294Mold Shrinkape, flow, 24 hs?0.528.019.01Mold Shrinkape, flow, 24 hs?0.529.019.01Mold Shrinkape, flow, 24 hs?1.62	HDT, 0.45 MPa, 3.2 mm, unannealed	145		ASTM D648
CTF, 40°C to 40°C, flow558°D1/°CASTM 831CTF, 40°C to 40°C, flow56°DS1/°C50°1359-2CTF, 40°C to 40°C, flow56°DS1/°C50°1359-2CTF, 23°C to 60°C, flow56°DS1/°C50°TS/HPHYSL0140°C50°TS/HPHYSL0140°C50°TS/HPhysl0134g/Cm ³ ASIM 059°CMold Shrinkage, flow, 24 har ⁶¹ 61°C50°TS/HMold Shrinkage, flow, 24 har ⁶¹ 65°C50°TS/HMold Shrinkage, flow, 24 har ⁶¹ 65°TS50°TS/HMold Shri	HDT, 1.82 MPa, 3.2mm, unannealed	140	°C	ASTM D648
CTE, 40°C to 40°C, flow56051/°C6011359.2CTE, 23°C to 60°C, flow56051/°C5011359.2CTE, 23°C to 60°C, flow66051/°C5011359.2HDT (A), 045 MP flatw 80°10°4 sp=64mm146°C5075/flHDT (A), 1.5 MPa Flatw 80°10°4 sp=64mm140°C5075/flHDT (A), 1.5 MPa Flatw 80°10°4 sp=64mm140°C5075/flHDT (A), 1.5 MPa Flatw 80°10°4 sp=64mm140°C5075/flHDT (A), 1.5 MPa Flatw 80°10°4 sp=64mm140°C5075/flHOT (A), 1.5 MPa Flatw 80°10°4 sp=64mm140°C5075/flHOT (A), 1.5 MPa Flatw 80°10°4 sp=64mm140°C5075/flHOT (A), 1.5 MPa Flatw 80°10°4 sp=64mm140°C5075/flMolston Rape, flow, 24 har ^(A) 0.1%ATM 0570Mold Shrinkage, flow, 24 har ^(A) 0.4 - 0.6%5024Mold Shrinkage, flow, 24 har ^(A) 0.6%5024Mold Shrinkage, flow, 24 har ^(A) 0.5%5024Mold Shrinkage, flow, 24 har ^(A) 0.5%%Mold Shrinkage, flow, 24 har ^(A) 1.5%%Mold Shrinkage, flow, 24 har ^(A) 1.5%%Mold Shrinkage, flow, 24 har ^(A) 1.6% <td>CTE, -40°C to 40°C, flow</td> <td>5.58E-05</td> <td>1/°C</td> <td>ASTM E831</td>	CTE, -40°C to 40°C, flow	5.58E-05	1/°C	ASTM E831
CTE, 40°C, tdow566 051/°C560 1359-2CTE, 23°C to 60°C, flow566 051/°C50 11359-2CTE, 23°C to 60°C, flow566 051/°C50 1359-2CTE, 23°C to 60°C, flow66 05%C50 1359-2CTE, 23°C to 60°C, flow146%C50 75 /fdHDT/B(, 14, MP Flatw 80'10'4 sp=64mm160%C50 75 /fdHDT/B(, 14, MP Flatw 80'10'4 sp=64mm140%C50 75 /fdPHYSCL ¹¹ %C50 75 /fdPHYSCL ¹¹ 1.40%CASTM 0792Moisture Absorption, (23°C f50 K RH/24 hrs)0.4 -0.6%CASTM 0792Mold Shrinkage, flow, 24 hrs ⁽²¹ 0.4 -0.6%CASTM 0795Mold Shrinkage, flow, 24 hrs ⁽²¹ 0.6 -0.8%C50 294Mold Shrinkage, flow, 24 hrs ⁽²¹ 0.6%C50 294Mold Shrinkage, flow, 24 hrs ⁽²¹ 0.5%50 294Mold Shrinkage, flow, 24 hrs ⁽²¹ 0.5%%Mold Shrinkage, flow, 24 hrs ⁽²¹ %%%Mold Shrinkage,	CTE, -40°C to 40°C, xflow	5.58E-05	1/°C	ASTM E831
CTE, 23°C to 60°C, flow56.6051/°C50.01 1359-2CTE, 23°C to 60°C, flow56.6051/°C50.01 339-2HDTJR, 150, MSP Flakw 80°10'4 sp=64mm140°C50.75 /AIHDTJR, 151, MSP Flakw 80°10'4 sp=64mm140°C50.75 /AIPhyrscat."''''So 75 /AIPhyrscat.140''''So 75 /AIPhyrscat.1.34g(cm ¹ ASTM 0792Molds Minkage, flow, 24 hrs ⁽¹⁾ 0.4-0.6%ASTM 0570Mold Shrinkage, flow, 24 hrs ⁽²⁾ 0.6-0.8%ASTM 0595Mold Shrinkage, flow, 24 hrs ⁽²⁾ 0.5%So 294Mold Shrinkage, stow, 24 hrs ⁽²⁾ 0.5%So 294Mold Shrinkage, flow, 24 hrs ⁽²⁾ 0.5%So 294Mold Shrinkage, stow, 24 hrs ⁽²⁾ 1.3%So 294Mold Shrinkage, stow, 24 hrs ⁽²⁾ 1.3%%Li Vel	CTE, -40°C to 40°C, flow	5.6E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow5.66051/°C105 1359-2HDT/RL, 0.45 MPa Flatw 60°10°4 sp=64mm146°C150 75/RHDT/RL, 1.8 MPa Flatw 60°10°4 sp=64mm140°C150 75/RHDT/RL, 1.8 MPa Flatw 60°10°4 sp=64mm1.340°C150 75/RPHYSCAL ¹⁰ JJSTM 05702Physical ¹⁰ 1.340g/cm ²⁰ ASTM 05702Moisture Absorption, (23°C/50° RH/24 hrs)0.1%STM 05702Moid Shrinkage, xflow, 24 hrs ⁽²⁰ 0.4 - 0.6%STM 05702Moid Shrinkage, xflow, 24 hrs ⁽²⁰ 0.6 - 0.8%S0 294Moid Shrinkage, xflow, 24 hrs ⁽²⁰ 0.6%STM 03702 Modified: ManualMoid Shrinkage, xflow, 24 hrs ⁽²⁰ 0.370.10 - 0.5 min/ftb-hrrSTM 03702 Modified: ManualMoid Shrinkage, xflow, 24 hrs ⁽²⁰ 0.370.4%STM 03702 Modified: ManualMoid Shrinkage, xflow, 24 hrs ⁽²⁰ 0.370.4%STM 03702 Modified: ManualMoid Shrinkage, xflow, 24 hrs ⁽²⁰ 0.370.4%STM 03702 Modified: ManualMoid Shrinkage, xflow, 24 hrs ⁽²⁰ 0.370.4%STM 03702 Modified: ManualDynamic COF1.321.320.51.32STM 03702 Modified: ManualDistrict COF1.321.321.321.321.32U Yallow Card Link2.07780:013445809.01.321.32U Yallow Card Link2.07780:013445809.01.321.32U Yallow Card Link2.027821.321.321	CTE, -40°C to 40°C, xflow	5.6E-05	1/°C	ISO 11359-2
H07/8f. 0.45 MPa Flatw 80*10*4 sp=64mm146°CS075/RfHD7/Af. 1.8 MPa Flatw 80*10*4 sp=64mm140°CS075/AHVSCL ¹¹ °CS075/APHYSCL ¹¹	CTE, 23°C to 60°C, flow	5.6E-05	1/°C	ISO 11359-2
HDT/A.1.8 MPa Flaws 80*10*4 sp=64mm140°C150 75/AtPHYSICAL. ¹⁰	CTE, 23°C to 60°C, xflow	5.6E-05	1/°C	ISO 11359-2
PHYSICAL ¹¹ Density1.34g/cm³ASTM D792Moisture Absorption, (23°C/50% RH/24 hrs)0.1%ASTM D570Mold Shrinkage, rflow, 24 hrs ⁽²⁾ 0.4 - 0.6%ASTM D955Mold Shrinkage, xflow, 24 hrs ⁽²⁾ 0.6 - 0.8%STM D955Mold Shrinkage, rflow, 24 hrs ⁽²⁾ 0.5 - 0.8%STM D955Mold Shrinkage, xflow, 24 hrs ⁽²⁾ 0.5 - 0.8%STM D955Mold Shrinkage, xflow, 24 hrs ⁽²⁾ 0.5 - 0.8%STM D950Mold Shrinkage, xflow, 24 hrs ⁽²⁾ 0.5 - 0.8%STM D3702 Modified: ManualMold Shrinkage, xflow, 24 hrs ⁽²⁾ 0.37	HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	146	°C	ISO 75/Bf
Density1.34g/cm³ASTM D792Moisture Absorption, (23°C/50°K RH/24 hrs)0.1%ASTM D570Mold Shrinkage, flow, 24 hrs ^(a) 0.4 - 0.6%ASTM D955Mold Shrinkage, flow, 24 hrs ^(a) 0.6 - 0.8%STM D955Mold Shrinkage, flow, 24 hrs ^(a) 0.5%So 294Mold Shrinkage, flow, 24 hrs ^(a) 0.5%So 294Wear Factor Washer100-10 in/S-min/ft-lb-lrStM D3702 Modified: ManualDynaine COF0.37%%So 294Density1.33g/cm³%So 204Polity Card LinkE207780-101344587%%%U Yellow Card Link 2121562-101344609%%%Dynaine Gase Rating120mm10.4%Dynaine Gase Rating120mm%%Dynaine Gase Mathematic120%%%Dynaine Gase Sating120%%%Dynaine Gase Sating120%%%Dynaine Gase Sating120%%%Dynaine Gase Sating1	HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	140	°C	ISO 75/Af
Moisture Absorption. (2°C/50% RH/24 hrs)0.1%ASTM D570Mold Shrinkage, flow, 24 hrs ⁽²⁾ 0.4 - 0.6%ASTM D955Mold Shrinkage, flow, 24 hrs ⁽²⁾ 0.6 - 0.8%ND 955Mold Shrinkage, flow, 24 hrs ⁽²⁾ 0.5%ISO 294Mold Shrinkage, flow, 24 hrs ⁽²⁾ 0.65%ISO 294Mold Shrinkage, flow, 24 hrs ⁽²⁾ 0.5%ISO 294Mold Shrinkage, flow, 24 hrs ⁽²⁾ 0.65%ISO 294Mold Shrinkage, flow, 24 hrs ⁽²⁾ 0.5%ISO 294Wear Factor Washer16510^-10 in^S-min/[tblb/rMID 3702 Molfilet: ManualDynamic COF0.37-ASTM D3702 Molfilet: ManualEnter COF1.33g/cm³ISO 180U Yellow Card Link 2E207780-101344587%-U Yellow Card Link 2E207780-101344587%-U Yellow Card Link 2E20780-101344587%-U Yellow Card Link 2E121562-101344609%-U Yellow Card Link 26U Yellow Card Link 210%-Drying Time4Hrs-Mainum Moisture Content0.02%-Midel Cance Temperature305-325	PHYSICAL ⁽¹⁾			
Mold Shrinkage, flow, 24 hrs0.4 - 0.6%ASTM D955Mold Shrinkage, flow, 24 hrs0.6 - 0.8%STM D955Mold Shrinkage, flow, 24 hrs0.5%ISO 294Mold Shrinkage, flow, 24 hrs0.65%STM D3702 Modified: ManualDyamic COF0.37-ASTM D3702 Modified: ManualDyamic COF0.37.STM D3702 Modified: ManualEAKERCERISTICS0.37.STM D3702 Modified: ManualU Yellow Card Link 20.37.STM D3702 Modified: ManualELAME CARACCERISTICS0.37.STM D3702 Modified: ManualU Yellow Card Link 2U Yellow Card Link 2U Yellow Card Link 2Dying Temperature120Dying TemperatureMaximum Moisture Content.002%.Midle Cance A Temperature.002%.Midle Cance A Temperature <td< td=""><td>Density</td><td>1.34</td><td>g/cm³</td><td>ASTM D792</td></td<>	Density	1.34	g/cm³	ASTM D792
Modd Shrinkage, stlow, 24 hrs ⁽²⁾ 0.6 - 0.8% IntersectionMold Shrinkage, stlow, 24 hrs ⁽²⁾ 0.5% IntersectionMold Shrinkage, stlow, 24 hrs ⁽²⁾ 0.65% IntersectionWear Factor Washer16510^-10 in^5-min/ft-bhrATM D3702 Modified: ManualDynamic COF0.37- 0.10 in/5-min/ft-bhrATM D3702 Modified: ManualBestiv0.37- 0.10 in/5-min/ft-bhrATM D3702 Modified: ManualDensity0.37- 0.10 in/5-min/ft-bhrATM D3702 Modified: ManualExter COF0.43- 0.10 in/5-min/ft-bhrATM D3702 Modified: ManualDensity0.43- 0.10 in/5-min/ft-bhrATM D3702 Modified: ManualExter COF0.43- 0.10 in/5-min/ft-bhrATM D3702 Modified: ManualDensity0.43- 0.10 in/5-min/ft-bhrATM D3702 Modified: ManualExter COF0.43- 0.10 in/5-min/ft-bhrATM D3702 Modified: ManualExter COF0.43- 0.10 in/5-min/ft-bhr- 0.10 in/5-min/ft-bhrExter COF0.20 in/5- 0.10 in/5-min/ft-bhr </td <td>Moisture Absorption, (23°C/50% RH/24 hrs)</td> <td>0.1</td> <td>%</td> <td>ASTM D570</td>	Moisture Absorption, (23°C/50% RH/24 hrs)	0.1	%	ASTM D570
Noid Shrinkage, flow, 24 hrs0.5%802 94Mold Shrinkage, xflow, 24 hrs0.65%0.52 94Wear Factor Washer1650.401 0h/5-min/ftdlb-hrASTM D3702 Modified: ManualDynamic COF0.37-ASTM D3702 Modified: ManualBensity1.33g/cm³1051183FLARE CHARACTERISTICSE207780-1013445827%.U Yellow Card Link 2E21562-101344609%.U Yellow Card Link 2E21562-101344609%.Dyring Temperature12mmU194Dyring Temperature0.02%.Maximum Moisture Content0.02%.Met Temperature0.02%.Midd Famperature201-330%.Midd Famperature205-305%.Midd Famperature205-305%.Midd Famperature205-305%.Midd Temperature80-100%.Midd Temperature205-305%.Midd Temperature205-305%.Midd Temperature80-100%.Midd Temperature80-100%.Midd Temperature80-100%.Midd Temperature80-100%.Midd Temperature80-100%.Midd Temperature80-100%.Midd Temperature80-100%.Midd Temperature80-100%.Midd Temperatur	Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.4 - 0.6	%	ASTM D955
Mold Shrink Qe fter0.65%S0 294Wear Factor Washer1650.710 in/5-min/ft-lb-MASTM D3702 Modified: ManualDynamic COF0.37-ASTM D3702 Modified: ManualStatic COF0.43-ASTM D3702 Modified: ManualDensity1.33g/cm ³ S0 1183FLAKE CHARACTERISTIC ⁽³⁾ E207780-101344587UL Yellow Card Link 2E207780-101344580Dig Temperature ⁽³⁾ E21562-101344609Dying Temperature ⁽⁴⁾ E20780mmU.94Pring Temperature ⁽⁴⁾ 10C-Drying Temperature ⁽⁴⁾ 0.02%-Maximu Moisture Content0.02%-Model - Zone J Temperature305.325°-Midde - Zone J Temperature20-303°-Midde - Zone J Temperature295.305°-Midde Temperature80.110°-Midde Temperature80.110°-Midde Temperature80.110%-Midde Temperature80.110%-Midde Temperature80.110%-Midde Temperature80.110%-Midde Temperature80.110%-Midde Temperature80.110%-Midde Temperature80.110%-Midde Temperature80.110%-Midde Temperature80.110%-Midde Temperature	Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.6 - 0.8	%	ASTM D955
Wear Factor Washer16510-10 in/S-min/ft-BhrATM D3702 Modified: ManualDynamic COF0.370.37ATM D3702 Modified: ManualStatic COF0.430.43STM D3702 Modified: ManualDensity1.33granUS1183FLAME CHARACTERISC ⁽³⁾ 201780-1013445876.STM D3702 Modified: ManualU Yellow Card Link 2E207780-103445879.0.10.9.DL Yellow Card Link 2E201703446099.0.10.9.Dynamic GaleStatter Card Modified: Manual9.9.9.Dynamic GaleStatter Card Modified: Manual9.9.9.Maximu Moisture Content10.9.9.9.9.Midle Famperature30.9.9.9.9.9.Midle Famperature30.9.9.9.9.9.Midle Famperature30.9.9.9.9.9.Midle Famperature30.9.9.9.9.9.Midle Famperature30.9.9.9.9.9.Midle Famperature30.9.9.9.9.9.Midle Famperature30.9.9.9.9.3.Midle Famperature30.9.9.9.3.3.Midle Famperature30.9.9.3.3.3.Midle Famperature30.9.9.3.3.3.Midle Famperature30.9.	Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.5	%	ISO 294
Pynnic C0F0.37- A STM D3702 Modified: ManualStatic C0F0.43- G STM D3702 Modified: ManualDensity1.33gran3St M3702 Modified: ManualFLAME CHARACTERISTO ¹⁰ - STATTST- STATTSTUL Yelow Card Link CE207780-10344587- STATTST- STATTSTUL Yelow Card Link CE20780-10344587- STATTST- STATTSTDL Recognized, 94V-1 Flame Class Rating20- STATTST- STATTSTDying Temperature ⁴⁰ - STATTST- STATTST- STATTSTDying Time- STATTST- STATTST- STATTSTMaximum Moisture Content- STATTST- STATTST- STATTSTMiddle Jace Pareparature- STATTST- STATTST- STATTSTMiddle Jace Pareparature- STATTST- STATTST- STATTSTMiddle Tone Pareparature- STATTST- STATTST- STATTST	Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.65	%	ISO 294
Static COF0.43.47M D3702 Modified: ManualDensity1.33g/m³M31032 Modified: ManualFLAME CHARACTERISTICS (3)207780-101344587.4.4U Yellow Card Link 2E207780-101344587.4.4U Yellow Card Link 2.2.4.4.4DY Ing Temperature 4.2.4.4.4Dying Temperature 6.2.4.4.4Maximu Moisture Content.2.4.4.4Maximu Moisture Content.2.2.4.4Met Temperature 5.2.2.2.2Midde-Zone 3 Temperature 6.2.3.2.2Midde-Zone 1 Temperature 7.2.2.2.2Midde Temperature 6.2.2.2.2.2Midde Temperature 7.2.2.2.2.2Midde Temperature 7.2.2.2.2.2Midde Temperature 7.2.2.2.2.2Midde Temperature 7.2.2.2.2.2Midde Temperature 7.2.2.2.2.2.2Midde Temperature 7.2.2.2.2.2.2Midde Temperature 7.2.2.2.2.2.2Midde Temperature 7.2.2.2.2.2.2Midde Temperature 7.2.2.2.2.2.2Midde Temperature 7.2.2 <th< td=""><td>Wear Factor Washer</td><td>165</td><td>10^-10 in^5-min/ft-lb-hr</td><td>ASTM D3702 Modified: Manual</td></th<>	Wear Factor Washer	165	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Density1.33g/cm³150 1183FLARE CHARACTERSICS ⁽³⁾ F20730-10344587 </td <td>Dynamic COF</td> <td>0.37</td> <td></td> <td>ASTM D3702 Modified: Manual</td>	Dynamic COF	0.37		ASTM D3702 Modified: Manual
FLAME CHARACTERISTICS ¹³ F207780-101344587 - - - UL Yellow Card Link E207780-101344587 - - - - UL Yellow Card Link Z E121562-101344609 -	Static COF	0.43	-	ASTM D3702 Modified: Manual
IL Yellow Card Link QE207780-10344587· · · · · · · · · · · · · · · · · · ·				160 1100
UL Yellow Card Link 2E121562-101344609··UL Recognized, 94V-1 Flame Class Rating>3mmUL 94INIECTION MOLDING ⁽⁴⁾ Drying Temperature120°C-Drying Time4Hrs-Maximum Moisture Content0.02%-Melt Temperature305-325°C-Front - Zone 3 Temperature310-320°C-Middle - Zone 2 Temperature305-355°C-Mold Temperature305-355°C-Mold Temperature305-305°C-Mold Temperature80-110°C-Mold Temperature0.2-0.3%Pa-	Density	1.33	g/cm ³	150 1 1 8 3
Literative Principal Plane Class Rating≥3mmUL94INIECTION MOLDING ⁽⁴⁾ Drying Temperature120°CDrying Time4HrsMaximum Moisture Content0.02%Melt Temperature305 - 325°CFront - Zone 3 Temperature310 - 320°CMiddle - Zone 2 Temperature295 - 305°CMold Temperature80 - 110°CBack Pressure0.2 - 0.3MPa		1.33	g/cm³	150 1 1 8 3
INJECTION MOLDING ⁽⁴⁾ Drying Temperature120°CDrying Time4HrsMaximum Moisture Content0.02%Melt Temperature305 - 325°CFront - Zone 3 Temperature320 - 330°CMiddle - Zone 2 Temperature295 - 305°CRear - Zone 1 Temperature80 - 110°CMold Temperature0.2 - 0.3MPa	FLAME CHARACTERISTICS ⁽³⁾		g/cm³ -	-
Drying Temperature120°CDrying Time4HrsMaximum Moisture Content0.02%Met Temperature305-325°CFront - Zone 3 Temperature320 - 330°CMiddle - Zone 2 Temperature295-305°CRear - Zone 1 Temperature80-110°CMold Temperature80-120°CBack Pressure0.2 - 0.3MPa	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link	<u>E207780-101344587</u>	•	•
Drying Time4HrsMaximum Moisture Content0.02%Melt Temperature305 - 325°CFront - Zone 3 Temperature320 - 330°CMiddle - Zone 2 Temperature310 - 320°CRear - Zone 1 Temperature295 - 305°CMold Temperature80 - 110°CBack Pressure0.2 - 0.3MPa	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link UL Yellow Card Link 2	E207780-101344587 E121562-101344609	- -	· ·
Maximum Moisture Content0.02%Makimum Moisture Content0.02%Melt Temperature305 - 325°CFront - Zone 3 Temperature320 - 330°CMiddle - Zone 2 Temperature310 - 320°CRear - Zone 1 Temperature295 - 305°CMold Temperature80 - 110°CBack Pressure0.2 - 0.3MPa	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link UL Yellow Card Link 2 UL Recognized, 94V-1 Flame Class Rating	E207780-101344587 E121562-101344609	- -	· ·
Melt Temperature 305 - 325 °C Front - Zone 3 Temperature 320 - 330 °C Middle - Zone 2 Temperature 310 - 320 °C Rear - Zone 1 Temperature 295 - 305 °C Mold Temperature 80 - 110 °C Back Pressure 0.2 - 0.3 MPa	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link UL Yellow Card Link 2 UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING ⁽⁴⁾	E207780-101344587 E121562-101344609 ≥3	• • mm	· ·
Front - Zone 3 Temperature 320 – 330 °C Middle - Zone 2 Temperature 310 – 320 °C Rear - Zone 1 Temperature 295 – 305 °C Mold Temperature 80 – 110 °C Back Pressure 0.2 – 0.3 MPa	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link UL Yellow Card Link 2 UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING ⁽⁴⁾ Drying Temperature	E207780-101344587 E121562-101344609 ≥3 120	- - mm °C	· ·
Middle - Zone 2 Temperature 310 – 320 °C Rear - Zone 1 Temperature 295 – 305 °C Mold Temperature 80 – 110 °C Back Pressure 0.2 – 0.3 MPa	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link UL Yellow Card Link 2 UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING ⁽⁴⁾ Drying Temperature Drying Time	E207780-101344587 E121562-101344609 ≥3 120 4	- - mm °C Hrs	· ·
Rear - Zone 1 Temperature 295 – 305 °C Mold Temperature 80 – 110 °C Back Pressure 0.2 – 0.3 MPa	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link UL Yellow Card Link 2 UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING ⁽⁴⁾ Drying Temperature Drying Time Maximum Moisture Content	E207780-101344587 E121562-101344609 ≥3 120 4 0.02	 . mm °C Hrs % 	· ·
Mold Temperature 80 - 110 °C Back Pressure 0.2 - 0.3 MPa	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link UL Yellow Card Link 2 UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING ⁽⁴⁾ Drying Temperature Drying Time Maximum Moisture Content Melt Temperature	E207780-101344587 E121562-101344609 ≥3 120 4 0.02 0.02 305 - 325	°C Hrs % °C	· ·
Back Pressure 0.2 – 0.3 MPa	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link UL Yellow Card Link 2 UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING ⁽⁴⁾ Drying Temperature Drying Time Maximum Moisture Content Melt Temperature Front - Zone 3 Temperature	E207780-101344587 E121562-101344609 ≥3 120 4 0.02 305 - 325 320 - 330	- - mm °C Hrs % °C	· ·
	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link UL Yellow Card Link 2 UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING ⁽⁴⁾ Drying Temperature Drying Time Maximum Moisture Content Melt Temperature Front - Zone 3 Temperature Middle - Zone 2 Temperature	E207780-101344587 E121562-101344609 ≥3 120 120 4 0.02 305 - 325 320 - 330 310 - 320	- - mm °C Hrs % °C °C	· ·
Screw Speed 30 – 60 rpm	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link UL Yellow Card Link 2 UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING ⁽⁴⁾ Drying Temperature Drying Time Maximum Moisture Content Melt Temperature Front - Zone 3 Temperature Middle - Zone 2 Temperature Rear - Zone 1 Temperature	E207780-101344587 E121562-101344609 ≥3 120 4 0.02 305 - 325 320 - 330 310 - 320 295 - 305	- · · · · · · · · · · · · · · · · · · ·	· ·
	FLAME CHARACTERISTICS ⁽³⁾ UL Yellow Card Link UL Yellow Card Link 2 UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING ⁽⁴⁾ Drying Temperature Drying Time Maximum Moisture Content Melt Temperature Front - Zone 3 Temperature Middle - Zone 2 Temperature Middle - Zone 1 Temperature Mold Temperature	E207780-101344587 E121562-101344609 ≥3 120 120 4 0.02 305 - 325 320 - 330 310 - 320 295 - 305 80 - 110	- - mm °C Hrs % °C °C °C °C °C °C	· ·

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.



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