



## **Americas: COMMERCIAL**

Source GMD, last updated:01/03/2006

Nonhalogenated. 8.5 MFR. High impact. Thick wall sections. Opaques only. FDA food contact compliant in limited colors.

## Property

Fensile Stress, yld, Type I, 50 mm/min     58     MPa     ASTM D 638       Fensile Stress, brk, Type I, 50 mm/min     63     MPa     ASTM D 638       Fensile Strain, yld, Type I, 50 mm/min     7     %     ASTM D 638       Fensile Strain, brk, Type I, 50 mm/min     115     %     ASTM D 638       Fensile Strain, brk, Type I, 50 mm/min     115     %     ASTM D 638       Fensile Strain, brk, Type I, 50 mm/min     68     .     ASTM D 780       Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 785       fardness, Rockwell M     68     .     ASTM D 785       fardness, Rockwell R     118     .     ASTM D 785       Faber Abrasion, CS-17, 1 kg     20     mg/1000cy     ASTM D 1044       MPACT     Value     Unit     Standard       zod Impact, unotched, 23°C     747     J/m     ASTM D 285       Fensile Impact (D 3029), 23°C     169     J     ASTM D 1822       Falling Dart Impact (D 3029), 23°C     169     J     ASTM D 648       DT, 0.45 MPa, 6.4 mm, unannealed     137     °C     ASTM D 670	TYPICAL PROPERTIES <sup>(1)</sup>			
Fensile Stress, brk, Type I, 50 mm/min     63     MPa     ASTM D 638       Fensile Strain, yld, Type I, 50 mm/min     7     %     ASTM D 638       Fensile Strain, brk, Type I, 50 mm/min     115     %     ASTM D 638       Fensile Strain, brk, Type I, 50 mm/min     115     %     ASTM D 638       Fensile Strain, brk, Type I, 50 mm/min, 50 mm span     81     MPa     ASTM D 790       Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 790       Hardness, Rockwell M     68     -     ASTM D 785       Tadness, Rockwell R     118     -     ASTM D 785       Tadness, Rockwell R     118     -     ASTM D 785       Taber Abrasion, CS-17, 1 kg     20     mg/1000cy     ASTM D 4812       zod Impact, unnotched, 23°C     3204     J/m     ASTM D 822       Fensile Impact, Type S"     420     kJ/m²     ASTM D 1822       Telling Dart Impact (D 3029), 23°C     169     J     ASTM D 648       DT, 1.82 MPa, 6.4 mm, unannealed     137     °C     ASTM D 648       DT, 1.82 MPa, 6.4 mm, unannealed     126     °C	MECHANICAL	Value	Unit	Standard
Fensile Strain, yld, Type I, 50 mm/min     7     %     ASTM D 638       Fensile Strain, brk, Type I, 50 mm/min     115     %     ASTM D 638       Flexural Stress, yld, 1.3 mm/min, 50 mm span     81     MPa     ASTM D 790       Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 790       Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 790       Hardness, Rockwell M     68     -     ASTM D 785       Hardness, Rockwell R     118     -     ASTM D 785       Faber Abrasion, CS-17, 1 kg     20     mg/1000cy     ASTM D 785       Taber Abrasion, CS-17, 1 kg     20     mg/1000cy     ASTM D 785       Zod Impact, unnotched, 23°C     3204     J/m     ASTM D 4812       Zod Impact, notched, 23°C     747     J/m     ASTM D 1822       Tealing Dart Impact (D 3029), 23°C     169     J     ASTM D 638       HDT, 0.45 MPa, 6.4 mm, unannealed     137     °C     ASTM D 648       DT, 1.82 MPa, 6.4 mm, unannealed     137     °C     ASTM D 648       DT, 1.82 MPa, 6.4 mm, unannealed     137     °C	Tensile Stress, yld, Type I, 50 mm/min	58	MPa	ASTM D 638
Fensile Strain, brk, Type I, 50 mm/min     115     %     ASTM D 638       Flexural Stress, yld, 1.3 mm/min, 50 mm span     81     MPa     ASTM D 790       Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 790       Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 790       ardness, Rockwell M     68     -     ASTM D 785       fardness, Rockwell R     118     -     ASTM D 785       Faber Abrasion, CS-17, 1 kg     20     mg/1000cy     ASTM D 1044       MPACT     Value     Unit     Standard       zod Impact, nunotched, 23°C     747     J/m     ASTM D 4812       zod Impact, nuchched, 23°C     747     J/m     ASTM D 1822       Fensile Impact, Type "S"     420     kJ/m²     ASTM D 1822       Falling Dart Impact (D 3029), 23°C     169     J     ASTM D 648       DT, 0.45 MPa, 6.4 mm, unannealed     137     °C     ASTM D 648       DT, 1.82 MPa, 6.4 mm, unannealed     126     °C     ASTM D 648       DT, 1.45 MPa, 6.4 mm, unannealed     126     °C     ASTM D 792 <td>Tensile Stress, brk, Type I, 50 mm/min</td> <td>63</td> <td>MPa</td> <td>ASTM D 638</td>	Tensile Stress, brk, Type I, 50 mm/min	63	MPa	ASTM D 638
Flexural Stress, yid, 1.3 mm/min, 50 mm span     81     MPa     ASTM D 790       Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 790       Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 790       Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 790       Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 790       Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 790       Flexural Stress, Rockwell M     68     -     ASTM D 790       Flexural Stress, Rockwell R     118     -     ASTM D 785       Flexural Stress, Rockwell R     118     -     ASTM D 785       Taber Abrasion, CS-17, 1 kg     0     mg/1000cy     ASTM D 1044       MPACT     Value     Unit     Standard       zod Impact, notched, 23°C     747     J/m     ASTM D 1822       Faling Dart Impact (D 3029), 23°C     169     J     ASTM D 1822       Faling Dart Impact (D 3029), 23°C     169     J     ASTM D 648       HDT, 0.45 MPa, 6.4 mm, unannealed     137     °C </td <td>Tensile Strain, yld, Type I, 50 mm/min</td> <td>7</td> <td>%</td> <td>ASTM D 638</td>	Tensile Strain, yld, Type I, 50 mm/min	7	%	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span     2130     MPa     ASTM D 790       Hardness, Rockwell M     68     -     ASTM D 785       Hardness, Rockwell R     118     -     ASTM D 785       Faber Abrasion, CS-17, 1 kg     20     mg/1000cy     ASTM D 1044       MPACT     Value     Unit     Standard       zod Impact, unnotched, 23°C     3204     J/m     ASTM D 4812       zod Impact, notched, 23°C     747     J/m     ASTM D 256       Fensile Impact, D3029), 23°C     169     J     ASTM D 029       Falling Dart Impact (D 3029), 23°C     169     J     ASTM D 029       FIERMAL     Value     Unit     Standard       HDT, 0.45 MPa, 6.4 mm, unannealed     137     °C     ASTM D 648       DTE, -40°C to 55°C, flow     6.48E-05     1/°C     ASTM D 792       PHYSICAL     Value     Unit     Standard       Specific Gravity     1.19     -     ASTM D 792       Specific Volume     0.84     cm³/g     ASTM D 792       Water Absorption, equilibrium, 23C     0.37     % <td>Tensile Strain, brk, Type I, 50 mm/min</td> <td>115</td> <td>%</td> <td>ASTM D 638</td>	Tensile Strain, brk, Type I, 50 mm/min	115	%	ASTM D 638
Hardness, Rockwell M     68     -     ASTM D 785       Hardness, Rockwell R     118     -     ASTM D 785       Faber Abrasion, CS-17, 1 kg     20     mg/1000cy     ASTM D 785       MPACT     Value     Unit     Standard       zod Impact, unotched, 23°C     3204     J/m     ASTM D 4812       zod Impact, notched, 23°C     747     J/m     ASTM D 256       Fensile Impact, Type "S"     420     kJ/m²     ASTM D 1822       Faling Dart Impact (D 3029), 23°C     169     J     ASTM D 3029       FHERMAL     Value     Unit     Standard       HDT, 0.45 MPa, 6.4 mm, unannealed     126     °C     ASTM D 648       TE, -40°C to 95°C, flow     6.48E-05     1/°C     ASTM D 792       Specific Gravity     1.19     -     ASTM D 792       Specific Volume     0.84     cm³/g     ASTM D 792       Nater Absorption, equilibrium, 23C     0.37     %     ASTM D 570       Vater Absorption, equilibrium, 100°C     0.54     %     ASTM D 570       Vater Absorption, equilibrium, 100°C     0.54	Flexural Stress, yld, 1.3 mm/min, 50 mm span	81	MPa	ASTM D 790
Hardness, Rockwell R   118   -   ASTM D 785     Faber Abrasion, CS-17, 1 kg   20   mg/1000cy   ASTM D 1044     IMPACT   Value   Unit   Standard     zod Impact, unnotched, 23°C   3204   J/m   ASTM D 4812     zod Impact, notched, 23°C   747   J/m   ASTM D 1822     ralling Dart Impact (D 3029), 23°C   169   J   ASTM D 3029     FHERMAL   Value   Unit   Standard     HDT, 0.45 MPa, 6.4 mm, unannealed   137   °C   ASTM D 648     HDT, 1.82 MPa, 6.4 mm, unannealed   126   °C   ASTM D 648     DTE, 40°C to 95°C, flow   6.48E-05   1/°C   ASTM D 792     Specific Gravity   1.19   -   ASTM D 792     Specific Volume   0.84   cm³/g   ASTM D 570     Nater Absorption, 24 hours   0.19   %   ASTM D 570     Nater Absorption, equilibrium, 100°C   0.54   %   ASTM D 570     Nater Absorption, equilibrium, 100°C   0.54   %   ASTM D 570     Nater Absorption, equilibrium, 100°C   0.54   %   ASTM D 570     Vater Absorption, equ	Flexural Modulus, 1.3 mm/min, 50 mm span	2130	MPa	ASTM D 790
Faber Abrasion, CS-17, 1 kg     20     mg/1000cy     ASTM D 1044       MPACT     Value     Unit     Standard       zod Impact, unotched, 23°C     3204     J/m     ASTM D 4812       zod Impact, notched, 23°C     747     J/m     ASTM D 4812       zod Impact, notched, 23°C     747     J/m     ASTM D 256       Fensile Impact, Type "S"     420     kJ/m²     ASTM D 1822       Faling Dart Impact (D 3029), 23°C     169     J     ASTM D 3029 <b>THERMAL</b> Value     Unit     Standard       HDT, 0.45 MPa, 6.4 mm, unannealed     137     °C     ASTM D 648       HDT, 1.82 MPa, 6.4 mm, unannealed     126     °C     ASTM D 648       DTE, -40°C to 95°C, flow     6.48E-05     1/°C     ASTM D 792       Specific Gravity     1.19     -     ASTM D 792       Specific Volume     0.84     cm³/g     ASTM D 570       Nater Absorption, 24 hours     0.19     %     ASTM D 570       Nater Absorption, equilibrium, 100°C     0.54     %     ASTM D 570       Vater Absorption, equilibrium, 100°C	Hardness, Rockwell M	68	-	ASTM D 785
MPACTValueUnitStandardzod Impact, unotched, 23°C3204J/mASTM D 4812zod Impact, notched, 23°C747J/mASTM D 256Fensile Impact, Type "S"420kJ/m²ASTM D 1822alling Dart Impact (D 3029), 23°C169JASTM D 3029 <b>FHERMAL</b> ValueUnitStandardHDT, 0.45 MPa, 6.4 mm, unannealed137°CASTM D 648TE, 40°C to 95°C, flow6.48E-051/°CASTM D 648TE, 40°C to 95°C, flow6.48E-051/°CASTM D 648PHYSICALValueUnitStandardSpecific Gravity1.19-ASTM D 792Specific Volume0.84cm³/gASTM D 792Nater Absorption, equilibrium, 23C0.37%ASTM D 570Valer Absorption, equilibrium, 100°C0.54%ASTM D 570Valet Flow Rate, 300°C/1.2 kgf8.5g/10 minASTM D 1238ELECTRICALValueUnitStandardValue Resistivity2.5E+17Ohm-cmASTM D 1238Oldure Resistivity2.5E+17Ohm-cmASTM D 149Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	Hardness, Rockwell R	118	-	ASTM D 785
zod Impact, unnotched, 23°C3204J/mASTM D 4812zod Impact, notched, 23°C747J/mASTM D 256Fensile Impact, Type "S"420kJ/m2ASTM D 1822Falling Dart Impact (D 3029), 23°C169JASTM D 3029 <b>FHERMAL</b> ValueUnitStandard1DT, 0.45 MPa, 6.4 mm, unannealed137°CASTM D 6481DT, 1.82 MPa, 6.4 mm, unannealed126°CASTM D 6482TE, 40°C to 95°C, flow6.48E-051/°CASTM D 648PHYSICALValueUnitStandardSpecific Gravity1.19-ASTM D 792Specific Volume0.84cm³/gASTM D 792Nater Absorption, 24 hours0.19%ASTM D 570Nater Absorption, equilibrium, 23C0.54%ASTM D 570Value Kate, 300°C/1.2 kgf8.5g/10 minASTM D 1238ELECTRICALValueUnitStandardVolume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	Taber Abrasion, CS-17, 1 kg	20	mg/1000cy	ASTM D 1044
zod Impact, notched, 23°C     747     J/m     ASTM D 256       Tensile Impact, Type "S"     420     kJ/m²     ASTM D 1822       Falling Dart Impact (D 3029), 23°C     169     J     ASTM D 3029 <b>FHERMAL</b> Value     Unit     Standard       hDT, 0.45 MPa, 6.4 mm, unannealed     137     °C     ASTM D 648       hDT, 1.82 MPa, 6.4 mm, unannealed     126     °C     ASTM D 648       CTE, -40°C to 95°C, flow     6.48E-05     1/°C     ASTM D 831       PHYSICAL     Value     Unit     Standard       Specific Gravity     1.19     -     ASTM D 792       Specific Volume     0.84     cm³/g     ASTM D 792       Vater Absorption, equilibrium, 23C     0.37     %     ASTM D 570       Nater Absorption, equilibrium, 100°C     0.5-0.7     %     SABIC Method       Velt Flow Rate, 300°C/1.2 kgf     8.5     g/10 min     ASTM D 1238       ELECTRICAL     Value     Unit     Standard       /olume Resistivity     2.5E+17     Ohm-cm     ASTM D 123       Olectric Strength, in air, 3.2 mm	ІМРАСТ	Value	Unit	Standard
Tensile Impact, Type "S"     420     kJ/m2     ASTM D 1822       Falling Dart Impact (D 3029), 23°C     169     J     ASTM D 3029 <b>THERMAL</b> Value     Unit     Standard       HDT, 0.45 MPa, 6.4 mm, unannealed     137     °C     ASTM D 648       HDT, 1.82 MPa, 6.4 mm, unannealed     126     °C     ASTM D 648       CTE, -40°C to 95°C, flow     6.48E-05     1/°C     ASTM D 648       PHYSICAL     Value     Unit     Standard       Specific Gravity     1.19     -     ASTM D 792       Specific Volume     0.84     cm³/g     ASTM D 570       Nater Absorption, 24 hours     0.19     %     ASTM D 570       Nater Absorption, equilibrium, 100°C     0.54     %     ASTM D 570       Water Absorption, equilibrium, 100°C     0.54     %     ASTM D 570       Welt Flow Rate, 300°C/1.2 kgf     8.5     g/10 min     ASTM D 1238       ELECTRICAL     Value     Unit     Standard       /olume Resistivity     2.5E+17     Ohm-cm     ASTM D 257       Dielectric Strength, in air, 3.2 mm	Izod Impact, unnotched, 23°C	3204	J/m	ASTM D 4812
Failing Dart Impact (D 3029), 23°C     169     J     ASTM D 3029       THERMAL     Value     Unit     Standard       HDT, 0.45 MPa, 6.4 mm, unannealed     137     °C     ASTM D 648       HDT, 1.82 MPa, 6.4 mm, unannealed     126     °C     ASTM D 648       CTE, -40°C to 95°C, flow     6.48E-05     1/°C     ASTM E 831       PHYSICAL     Value     Unit     Standard       Specific Gravity     1.19     -     ASTM D 792       Specific Volume     0.84     cm³/g     ASTM D 792       Nater Absorption, 24 hours     0.19     %     ASTM D 570       Nater Absorption, equilibrium, 100°C     0.54     %     ASTM D 570       Mold Shrinkage, flow, 3.2 mm     0.5 - 0.7     %     SABIC Method       Volume Resistivity     2.5E+17     Ohm -cm     ASTM D 257       Dielectric Strength, in air, 3.2 mm     16.3     kV/mm     ASTM D 149       Relative Permittivity, 1 MHz     3     -     ASTM D 150	Izod Impact, notched, 23°C	747	J/m	ASTM D 256
THERMALValueUnitStandardHDT, 0.45 MPa, 6.4 mm, unannealed137°CASTM D 648HDT, 1.82 MPa, 6.4 mm, unannealed126°CASTM D 648CTE, -40°C to 95°C, flow6.48E-051/°CASTM E 831PHYSICALValueUnitStandardSpecific Gravity1.19-ASTM D 792Specific Volume0.84cm³/gASTM D 792Nater Absorption, 24 hours0.19%ASTM D 570Nater Absorption, equilibrium, 23C0.37%ASTM D 570Nater Absorption, equilibrium, 100°C0.54%ASTM D 570Mold Shrinkage, flow, 3.2 mm0.5 - 0.7%SABIC MethodValueUnitStandardVolume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	Tensile Impact, Type "S"	420	kJ/m²	ASTM D 1822
HDT, 0.45 MPa, 6.4 mm, unannealed   137   °C   ASTM D 648     HDT, 1.82 MPa, 6.4 mm, unannealed   126   °C   ASTM D 648     CTE, -40°C to 95°C, flow   6.48E-05   1/°C   ASTM E 831     PHYSICAL   Value   Unit   Standard     Specific Gravity   1.19   -   ASTM D 792     Specific Volume   0.84   cm³/g   ASTM D 792     Vater Absorption, 24 hours   0.19   %   ASTM D 570     Nater Absorption, equilibrium, 23C   0.37   %   ASTM D 570     Nater Absorption, equilibrium, 100°C   0.54   %   ASTM D 570     Mold Shrinkage, flow, 3.2 mm   0.5 - 0.7   %   SABIC Method     Volume Resistivity   2.5E+17   Ohm -cm   ASTM D 1238     ELECTRICAL   Value   Unit   Standard     Volume Resistivity   16.3   kV/mm   ASTM D 257     Dielectric Strength, in air, 3.2 mm   16.3   kV/mm   ASTM D 149     Relative Permittivity, 1 MHz   3   -   ASTM D 150     Dissipation Factor, 50/60 Hz   0.0009   -   ASTM D 150	Falling Dart Impact (D 3029), 23°C	169	J	ASTM D 3029
HDT, 1.82 MPa, 6.4 mm, unannealed126°CASTM D 648CTE, -40°C to 95°C, flow6.48E-051/°CASTM E 831 <b>PHYSICAL</b> ValueUnitStandardSpecific Gravity1.19-ASTM D 792Specific Volume0.84cm³/gASTM D 792Vater Absorption, 24 hours0.19%ASTM D 570Vater Absorption, equilibrium, 23C0.37%ASTM D 570Vater Absorption, equilibrium, 100°C0.54%ASTM D 570Wold Shrinkage, flow, 3.2 mm0.5 - 0.7%SABIC MethodVelter Flow Rate, 300°C/1.2 kgf8.5g/10 minASTM D 1238ELECTRICALValueUnitStandardVolume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	THERMAL	Value	Unit	Standard
CTE, -40°C to 95°C, flow6.48E-051/°CASTM E 831PHYSICALValueUnitStandardSpecific Gravity1.19-ASTM D 792Specific Volume0.84cm³/gASTM D 792Vater Absorption, 24 hours0.19%ASTM D 570Nater Absorption, equilibrium, 23C0.37%ASTM D 570Nater Absorption, equilibrium, 100°C0.54%ASTM D 570Nater Absorption, equilibrium, 100°C0.5-0.7%SABIC MethodMelt Flow Rate, 300°C/1.2 kgf8.5g/10 minASTM D 1238ELECTRICALValueUnitStandard/olume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	HDT, 0.45 MPa, 6.4 mm, unannealed	137	°C	ASTM D 648
PHYSICALValueUnitStandardSpecific Gravity1.19-ASTM D 792Specific Volume0.84cm³/gASTM D 792Vater Absorption, 24 hours0.19%ASTM D 570Vater Absorption, equilibrium, 23C0.37%ASTM D 570Vater Absorption, equilibrium, 100°C0.54%ASTM D 570Vater Absorption, equilibrium, 100°C0.54%ASTM D 570Vater Absorption, equilibrium, 100°C0.5-0.7%SABIC MethodMold Shrinkage, flow, 3.2 mm0.5 - 0.7%SABIC MethodVelte Flow Rate, 300°C/1.2 kgf8.5g/10 minASTM D 1238ELECTRICALValueUnitStandard/olume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	HDT, 1.82 MPa, 6.4 mm, unannealed	126	°C	ASTM D 648
Specific Gravity1.19-ASTM D 792Specific Volume0.84cm³/gASTM D 792Nater Absorption, 24 hours0.19%ASTM D 570Nater Absorption, equilibrium, 23C0.37%ASTM D 570Nater Absorption, equilibrium, 100°C0.54%ASTM D 570Mold Shrinkage, flow, 3.2 mm0.5-0.7%SABIC MethodMelt Flow Rate, 300°C/1.2 kgf8.5g/10 minASTM D 1238ELECTRICALValueUnitStandardVolume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	CTE, -40°C to 95°C, flow	6.48E-05	1/°C	ASTM E 831
Specific Volume0.84cm³/gASTM D 792Water Absorption, 24 hours0.19%ASTM D 570Water Absorption, equilibrium, 23C0.37%ASTM D 570Water Absorption, equilibrium, 100°C0.54%ASTM D 570Water Absorption, equilibrium, 100°C0.54%ASTM D 570Mold Shrinkage, flow, 3.2 mm0.5 - 0.7%SABIC MethodMelt Flow Rate, 300°C/1.2 kgf8.5g/10 minASTM D 1238ELECTRICALValueUnitStandardVolume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	PHYSICAL	Value	Unit	Standard
Nater Absorption, 24 hours0.19%ASTM D 570Nater Absorption, equilibrium, 23C0.37%ASTM D 570Nater Absorption, equilibrium, 100°C0.54%ASTM D 570Nold Shrinkage, flow, 3.2 mm0.5 - 0.7%SABIC MethodMold Shrinkage, flow, 3.2 mm8.5g/10 minASTM D 1238ELECTRICALValueUnitStandardVolume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	Specific Gravity	1.19	-	ASTM D 792
Water Absorption, equilibrium, 23C0.37%ASTM D 570Water Absorption, equilibrium, 100°C0.54%ASTM D 570Mold Shrinkage, flow, 3.2 mm0.5 - 0.7%SABIC MethodMelt Flow Rate, 300°C/1.2 kgf8.5g/10 minASTM D 1238ELECTRICALValueUnitStandard/olume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	Specific Volume	0.84	cm³/g	ASTM D 792
Water Absorption, equilibrium, 100°C0.54%ASTM D 570Mold Shrinkage, flow, 3.2 mm0.5 - 0.7%SABIC MethodMelt Flow Rate, 300°C/1.2 kgf8.5g/10 minASTM D 1238ELECTRICALValueUnitStandard/olume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	Water Absorption, 24 hours	0.19	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm0.5 - 0.7%SABIC MethodMelt Flow Rate, 300°C/1.2 kgf8.5g/10 minASTM D 1238ELECTRICALValueUnitStandard/olume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	Water Absorption, equilibrium, 23C	0.37	%	ASTM D 570
Melt Flow Rate, 300°C/1.2 kgf8.5g/10 minASTM D 1238ELECTRICALValueUnitStandard/olume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	Water Absorption, equilibrium, 100°C	0.54	%	ASTM D 570
ELECTRICALValueUnitStandard/olume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	Mold Shrinkage, flow, 3.2 mm	0.5 - 0.7	%	SABIC Method
/olume Resistivity2.5E+17Ohm-cmASTM D 257Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	Melt Flow Rate, 300°C/1.2 kgf	8.5	g/10 min	ASTM D 1238
Dielectric Strength, in air, 3.2 mm16.3kV/mmASTM D 149Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	ELECTRICAL	Value	Unit	Standard
Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0009-ASTM D 150	Volume Resistivity	2.5E+17	Ohm-cm	ASTM D 257
Dissipation Factor, 50/60 Hz 0.0009 - ASTM D 150	Dielectric Strength, in air, 3.2 mm	16.3	kV/mm	ASTM D 149
	Relative Permittivity, 1 MHz	3	-	ASTM D 150
Dissipation Factor, 1 MHz 0.01 - ASTM D 150	Dissipation Factor, 50/60 Hz	0.0009	-	ASTM D 150
	Dissipation Factor, 1 MHz	0.01	-	ASTM D 150

## Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	120	°C
Drying Time	3 - 4	hrs

48	hrs
0.02	%
310 - 330	°C
305 - 325	°C
310 - 330	°C
300 - 320	°C
290 - 310	°C
80 - 115	°C
0.3 - 0.7	MPa
40 - 70	rpm
40 - 60	%
0.025 - 0.076	mm
	0.02       310 - 330       305 - 325       310 - 330       300 - 320       290 - 310       80 - 115       0.3 - 0.7       40 - 70       40 - 60

Source GMD, last updated:01/03/2006

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

## PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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