



LNP* Verton* Compound MV006BS

Americas: COMMERCIAL

Also known as: VERTON MFX-7006 HS BP

Product Reorder Name: MV006BS

LNP* Verton* MV006BS is a compound based on Polypropylene (PP) containing Glass Fiber. Characteristics of this grade are Heat Stabilized and Burst Pressure.

Property

MECHANICAL Value Unit Tensile Stress, yld, Type I, 5 mm/min 104 MPa Tensile Stress, brk, Type I, 5 mm/min 104 MPa Tensile Strain, yld, Type I, 5 mm/min 2.3 % Tensile Strain, brk, Type I, 5 mm/min 2.3 % Tensile Modulus, 50 mm/min 6930 MPa Flexural Stress, Jod, 1.3 mm/min, 50 mm span 162 MPa Flexural Modulus, 1.3 mm/min, 50 mm span 5840 MPa Tensile Stress, yield, 5 mm/min 96 MPa Tensile Stress, break, 5 mm/min 87 MPa Tensile Stress, break, 5 mm/min 2.2 % Tensile Strain, pield, 5 mm/min 0 MPa Tensile Strain, pield, 5 mm/min 0 0 MPa Tensile Strain, pield, 5 mm/min 0 0 MPa Tensile Stress, break, 5 mm/min 0 0 MPa			TYPICAL PROPERTIES (1)
Tensile Stress, brk, Type I, 5 mm/min Tensile Strain, yld, Type I, 5 mm/min Tensile Strain, yld, Type I, 5 mm/min Tensile Strain, brk, Type I, 5 mm/min Tensile Strain, brk, Type I, 5 mm/min Tensile Modulus, 50 mm/min Flexural Stress, yld, 1.3 mm/min, 50 mm span Flexural Modulus, 1.3 mm/min, 50 mm span Flexural Modulus, 1.3 mm/min, 50 mm span Tensile Stress, yield, 5 mm/min 96 MPa Tensile Stress, break, 5 mm/min 87 MPa Tensile Strain, yield, 5 mm/min 2.2 % Tensile Strain, pied, 5 mm/min 2.2 % Tensile Strain, break, 5 mm/min 2.2 % Tensile Strain, break, 5 mm/min 30 MPa Tensile Strain, break, 5 mm/min 30 MPa Flexural Stress 145 MPa Flexural Modulus, 1 mm/min 6330 MPa Flexural Stress 145 MPa Flexural Modulus, 2 mm/min 10 MPa 11MPACT 12od Impact, unnotched, 23°C 770 J/m 12od Impact, unnotched, 23°C 214 J/m Multiaxial Impact 16 J Instrumented Impact Total Energy, 23°C 12 J 12od Impact, unnotched 80°10°4 +23°C 153 kJ/m² 12od Impact, unnotched 80°10°4 +23°C 154 J/m² 155 C 157 C 158 MPa, 3.2 mm, unannealed 168 °C HDT, 1.82 MPa, 3.2 mm, unannealed 169 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, xflow 155 °C PHYSICAL 1.09 - PHYSICAL Note that the side of t	Value Unit Standard	Value	
Tensile Strain, yld, Type I, 5 mm/min Tensile Strain, brk, Type I, 5 mm/min Tensile Strain, brk, Type I, 5 mm/min Tensile Strain, brk, Type I, 5 mm/min Tensile Modulus, 5.0 mm/min Flexural Stress, yld, 1.3 mm/min, 50 mm span Flexural Modulus, 1.3 mm/min, 50 mm span Tensile Stress, yield, 5 mm/min Tensile Stress, break, 5 mm/min Tensile Stress, break, 5 mm/min Tensile Strain, preak, 5 mm/min Tensile Modulus, 1 mm/min Tensile Strain, preak, 5 mm/min Tensile Strain, preak, 5 mm/min Tensile Modulus, 1 mm/min Tensile Strain, preak, 5 mm/min Tensile Modulus, 2 mm/min Tensile Strain, preak, 5 mm/min Tensile S	104 MPa ASTM D 638	104	Tensile Stress, yld, Type I, 5 mm/min
Tensile Strain, brk, Type I, 5 mm/min Tensile Modulus, 50 mm/min Elexural Stress, yld, 1.3 mm/min, 50 mm span Flexural Modulus, 1.3 mm/min, 50 mm span Flexural Modulus, 1.3 mm/min, 50 mm span Tensile Stress, yield, 5 mm/min 96 MPa Tensile Stress, break, 5 mm/min 76 MPa Tensile Stress, break, 5 mm/min 77 Ensile Strain, yield, 5 mm/min 78 Tensile Strain, yield, 5 mm/min 78 Tensile Strain, break, 5 mm/min 89 MPa Tensile Strain, break, 5 mm/min 19 2.2 % Tensile Modulus, 1 mm/min 10 MPa Flexural Modulus, 1 mm/min 10 MPa IMPACT IMPACT Impact, unnotched, 23°C Instrumented Impact, unnotched, 23°C Instrumented Impact Total Energy, 23°C Izod Impact, unnotched 80°10°4 +23°C Izod Impact, unnotched 80°10°4 +23°C Izod Impact, unnotched 80°10°4 +23°C Izod Impact, notched 80°10°4 +23°C Izod Impact, unnotched 80°10°4 +23°C Izod Impact, notched 80°10°4 +23°C Izod Impact, notched 80°10°4 +23°C Izod Impact, notched 80°10°4 +23°C Instrumented Inpact HDT, 0.45 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2 mm, unannealed 163 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, flow Total Pataw 80°10°4 sp=64mm 162 °C HDT/Bf, 0.45 MPa Flatw 80°10°4 sp=64mm 165 °C PHYSICAL Value Unit Specific Gravity 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs Moisture Absorption, 50% RH, 24 hrs Mold Shrinkage, flow, 24 hrs (5) Mold Shrinkage, xflow, 24 hrs (5)	104 MPa ASTM D 638	104	Tensile Stress, brk, Type I, 5 mm/min
Tensile Modulus, 50 mm/min Flexural Stress, yld, 1.3 mm/min, 50 mm span Flexural Modulus, 1.3 mm/min, 50 mm span Flexural Modulus, 1.3 mm/min, 50 mm span Tensile Stress, yield, 5 mm/min Fensile Stress, break, 5 mm/min Rensile Strain, yield, 5 mm/min Rensile Strain, yield, 5 mm/min Rensile Strain, yield, 5 mm/min Rensile Strain, break, 5 mm/min Rensile Modulus, 1 mm/min Rensile	2.3 % ASTM D 638	2.3	Tensile Strain, yld, Type I, 5 mm/min
Flexural Stress, yld, 1.3 mm/min, 50 mm span 162 MPa Flexural Modulus, 1.3 mm/min, 50 mm span 5840 MPa Tensile Stress, yield, 5 mm/min 96 MPa Tensile Stress, break, 5 mm/min 87 MPa Tensile Strain, yield, 5 mm/min 2.2 % Tensile Strain, break, 5 mm/min 2.2 % Tensile Modulus, 1 mm/min 6330 MPa Flexural Stress 145 MPa Flexural Modulus, 2 mm/min 0 MPa Impact 145 MPa Flexural Modulus, 2 mm/min 0 MPa Impact 0 MPa Impact 0 MPa Impact 0 MPa Italian 0 MPa Instrumented Impact, notched, 23°C 770 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80°10°4 + 23°C 53 kJ/m² Izod Impact, unnotched 80°10°4 + 23°C 53 kJ/m²	2.3 % ASTM D 638	2.3	Tensile Strain, brk, Type I, 5 mm/min
Flexural Modulus, 1.3 mm/min, 50 mm span 5840 MPa Tensile Stress, yield, 5 mm/min 96 MPa Tensile Stress, break, 5 mm/min 87 MPa Tensile Strain, yield, 5 mm/min 2.2 % Tensile Strain, break, 5 mm/min 2.2 % Tensile Modulus, 1 mm/min 6330 MPa Flexural Stress 145 MPa Flexural Modulus, 2 mm/min 0 MPa IMPACT Value Unit Izod Impact, unnotched, 23°C 770 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80*10*4 +23°C 53 kJ/m² Izod Impact, unnotched 80*10*4 +23°C 20 kJ/m² Izod Impact, unnotched 80*10*4 +23°C 20 kJ/m² Itae Unit HDT, 1.82 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2 mm, unannealed 163 °C °C CTE, -40°C to 40°C, filow 7.6E-05 1/°C CTE, -40°C to 40°C, fil	6930 MPa ASTM D 638	6930	Tensile Modulus, 50 mm/min
Tensile Stress, yield, 5 mm/min 96 MPa Tensile Strain, break, 5 mm/min 87 MPa Tensile Strain, break, 5 mm/min 2.2 % Tensile Strain, break, 5 mm/min 2.2 % Tensile Modulus, 1 mm/min 6330 MPa Flexural Stress 145 MPa Flexural Modulus, 2 mm/min 0 MPa IMPACT Value Unit Izod Impact, unnotched, 23°C 770 J/m Izod Impact, untotched, 23°C 214 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80°10°4 +23°C 53 kJ/m² Izod Impact, notched 80°10°4 +23°C 20 kJ/m² Izod Impact, notched 80°10°4 +23°C 20 kJ/m² Izod Impact, anotched 80°10°4 +23°C 53 kJ/m² Izod Impact, notched 80°10°4 +23°C 53 kJ/m² Izod Impact, unannealed 163 °C THERMAL Value Unit HDT, 1.82 MPa, 3	162 MPa ASTM D 790	162	Flexural Stress, yld, 1.3 mm/min, 50 mm span
Tensile Stress, break, 5 mm/min 87 MPa Tensile Strain, yield, 5 mm/min 2.2 % Tensile Strain, break, 5 mm/min 2.2 % Tensile Modulus, 1 mm/min 6330 MPa Flexural Stress 145 MPa Flexural Modulus, 2 mm/min 0 MPa IMPACT Value Unit Izod Impact, unnotched, 23°C 770 J/m Izod Impact, unnotched, 23°C 214 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80°10°4 +23°C 53 kJ/m² Izod Impact, unotched 80°10°4 +23°C 20 kJ/m² ITHERMAL Value Unit HDT, 0.45 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2 mm, unannealed 163 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, xflow 7.6E-05 1/°C HDT/Af, 1.8 MPa Flat	5840 MPa ASTM D 790	5840	Flexural Modulus, 1.3 mm/min, 50 mm span
Tensile Strain, yield, 5 mm/min 2.2 % Tensile Strain, break, 5 mm/min 2.2 % Tensile Modulus, 1 mm/min 6330 MPa Flexural Stress 145 MPa Flexural Modulus, 2 mm/min 0 MPa IMPACT Value Unit Izod Impact, unnotched, 23°C 770 J/m Izod Impact, notched, 23°C 214 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80*10*4 +23°C 53 kJ/m² Izod Impact, notched 80*10*4 +23°C 20 kJ/m² Izod Impact, notched 80*10*4 +23°C 20 kJ/m² Izod Impact, notched 80*10*4 +23°C 53 kJ/m² Izod Impact, unnotched 80*10*4 +23°C 20 kJ/m² ITOTAL Value Unit HDT, 1.82 MPa, 3.2 mm, unannealed 163 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, town 7.6E-05 1/°C HDT/Bf, 0.	96 MPa ISO 527	96	Tensile Stress, yield, 5 mm/min
Tensile Strain, break, 5 mm/min 2.2 % Tensile Modulus, 1 mm/min 6330 MPa Flexural Stress 145 MPa Flexural Modulus, 2 mm/min 0 MPa IMPACT Value Unit Izod Impact, unnotched, 23°C 770 J/m Izod Impact, notched, 23°C 214 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80°10°4 + 23°C 53 kJ/m² Izod Impact, notched 80°10°4 + 23°C 20 kJ/m² Izod Impact, notched 80°10°4 + 23°C 20 kJ/m² Izod Impact, notched 80°10°4 + 23°C 20 kJ/m² Izod Impact, notched 80°10°4 + 23°C 53 kJ/m² Izod Impact, notched 80°10°4 + 23°C 53 kJ/m² Izod Impact, unnotched 80°10°4 + 23°C 50 kJ/m² Izod Impact, unnotched 80°10°4 + 23°C 53 kJ/m² Izod Impact, unnotched 80°10°4 + 23°C 50 KJ/m² Interval 162 C	87 MPa ISO 527	87	Tensile Stress, break, 5 mm/min
Tensile Modulus, 1 mm/min 6330 MPa Flexural Stress 145 MPa Flexural Modulus, 2 mm/min 0 MPa IMPACT Value Unit Izod Impact, unnotched, 23°C 770 J/m Izod Impact, notched, 23°C 214 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80*10*4 +23°C 53 kJ/m² Izod Impact, notched 80*10*4 +23°C 20 kJ/m² Izod Impact, unnotched 80*10*4 +23°C 20 kJ/m² Izod Impact, unnotched 80*10*4 +23°C 20 kJ/m² Izod Impact, unnotched 80*10*4 +23°C 20 kJ/m² Itom Unit Unit HDT, 4.8 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2 mm, unannealed 155 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, flow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C <td< td=""><td>2.2 % ISO 527</td><td>2.2</td><td>Tensile Strain, yield, 5 mm/min</td></td<>	2.2 % ISO 527	2.2	Tensile Strain, yield, 5 mm/min
Flexural Stress 145 MPa Flexural Modulus, 2 mm/min 0 MPa IMPACT Value Unit Izod Impact, unnotched, 23°C 770 J/m Izod Impact, notched, 23°C 214 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80*10*4 +23°C 53 kJ/m² Izod Impact, notched 80*10*4 +23°C 20 kJ/m² Izod Impact, notched 80*10*4 +23°C 20 kJ/m² Izod Impact, unnotched 80*10*4 +23°C 20 kJ/m² IDT, A. S. MPa, 3.2 mm, unannealed 163 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, flow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Bf, 1.8 MPa Flatw 80*10*4 sp=64mm 155	2.2 % ISO 527	2.2	Tensile Strain, break, 5 mm/min
Flexural Modulus, 2 mm/min 0 MPa IMPACT Value Unit Izod Impact, unnotched, 23°C 770 J/m Izod Impact, notched, 23°C 214 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80*10*4 +23°C 53 kJ/m² Izod Impact, notched 80*10*4 +23°C 20 kJ/m² THERMAL Value Unit HDT, 0.45 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2mm, unannealed 155 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, flow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 - Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5)	6330 MPa ISO 527	6330	Tensile Modulus, 1 mm/min
IMPACT Value Unit Izod Impact, unnotched, 23°C 770 J/m Izod Impact, notched, 23°C 214 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80*10*4 +23°C 53 kJ/m² Izod Impact, notched 80*10*4 +23°C 20 kJ/m² THERMAL Value Unit HDT, 0.45 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2mm, unannealed 155 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, xflow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 - Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5	145 MPa ISO 178	145	Flexural Stress
Izod Impact, unnotched, 23°C 770 J/m Izod Impact, notched, 23°C 214 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80*10*4 +23°C 53 kJ/m² Izod Impact, notched 80*10*4 +23°C 20 kJ/m² THERMAL Value Unit HDT, 0.45 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2 mm, unannealed 155 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, xflow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 - Density 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.5 - 0.8 %	0 MPa ISO 178	0	Flexural Modulus, 2 mm/min
Izod Impact, notched, 23°C 214 J/m Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80*10*4 +23°C 53 kJ/m² Izod Impact, notched 80*10*4 +23°C 20 kJ/m² THERMAL Value Unit HDT, 0.45 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2mm, unannealed 155 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, sflow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 - Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	Value Unit Standard	Value	IMPACT
Multiaxial Impact 6 J Instrumented Impact Total Energy, 23°C 12 J Izod Impact, unnotched 80*10*4 +23°C 53 kJ/m² Izod Impact, notched 80*10*4 +23°C 20 kJ/m² THERMAL Value Unit HDT, 0.45 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2mm, unannealed 155 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, xflow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	770 J/m ASTM D 4812	770	Izod Impact, unnotched, 23°C
Instrumented Impact Total Energy, 23°C Izod Impact, unnotched 80*10*4 +23°C Izod Impact, notched 80*10*4 +23°C Izod Impact, notched 80*10*4 +23°C THERMAL HDT, 0.45 MPa, 3.2 mm, unannealed HDT, 1.82 MPa, 3.2mm, unannealed HDT, 1.82 MPa, 3.2mm, unannealed TEE, -40°C to 40°C, flow TOE, -40°C to 40°C, xflow TOE, -40°C to 40°C, xflow TOE, -40°C to 40°C, xflow HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm TOE HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm TOE PHYSICAL Specific Gravity TOE TOE Nobe Total	214 J/m ASTM D 256	214	Izod Impact, notched, 23°C
Izod Impact, unnotched 80*10*4 +23°C 53 kJ/m² Izod Impact, notched 80*10*4 +23°C 20 kJ/m² THERMAL Value Unit HDT, 0.45 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2mm, unannealed 155 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, xflow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Specific Gravity 1.09 - Density 1.09 - Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	6 J ISO 6603	6	Multiaxial Impact
Izod Impact, notched 80*10*4 +23°C	12 J ASTM D 3763	12	Instrumented Impact Total Energy, 23°C
THERMAL Value Unit HDT, 0.45 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2mm, unannealed 155 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, xflow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	53 kJ/m² ISO 180/1U	53	Izod Impact, unnotched 80*10*4 +23°C
HDT, 0.45 MPa, 3.2 mm, unannealed 163 °C HDT, 1.82 MPa, 3.2mm, unannealed 155 °C CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, xflow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	20 kJ/m² ISO 180/1A	20	Izod Impact, notched 80*10*4 +23°C
HDT, 1.82 MPa, 3.2mm, unannealed CTE, -40°C to 40°C, flow 7.6E-05 T/°C CTE, -40°C to 40°C, xflow 7.6E-05 T/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm T55 C PHYSICAL Specific Gravity Density Moisture Absorption, 50% RH, 24 hrs Mold Shrinkage, flow, 24 hrs (5) Mold Shrinkage, xflow, 24 hrs (5)	Value Unit Standard	Value	THERMAL
CTE, -40°C to 40°C, flow 7.6E-05 1/°C CTE, -40°C to 40°C, xflow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	163 °C ASTM D 648	163	HDT, 0.45 MPa, 3.2 mm, unannealed
CTE, -40°C to 40°C, xflow 7.6E-05 1/°C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	155 °C ASTM D 648	155	HDT, 1.82 MPa, 3.2mm, unannealed
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 162 °C HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	7.6E-05 1/°C ASTM E 831	7.6E-05	CTE, -40°C to 40°C, flow
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 155 °C PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	7.6E-05 1/°C ASTM E 831	7.6E-05	CTE, -40°C to 40°C, xflow
PHYSICAL Value Unit Specific Gravity 1.09 - Density 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	162 °C ISO 75/Bf	162	HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm
Specific Gravity 1.09 - Density 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	155 °C ISO 75/Af	155	HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm
Density 1.09 g/cm³ Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	Value Unit Standard	Value	PHYSICAL
Moisture Absorption, 50% RH, 24 hrs 0.03 % Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	1.09 - ASTM D 792	1.09	Specific Gravity
Mold Shrinkage, flow, 24 hrs (5) 0.3 - 0.6 % Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	1.09 g/cm³ ASTM D 792	1.09	Density
Mold Shrinkage, xflow, 24 hrs (5) 0.5 - 0.8 %	0.03 % ASTM D 570	0.03	Moisture Absorption, 50% RH, 24 hrs
	0.3 - 0.6 % ASTM D 955	0.3 - 0.6	Mold Shrinkage, flow, 24 hrs (5)
Mainture Absorption (23°C / 500/ PH)	0.5 - 0.8 % ASTM D 955	0.5 - 0.8	Mold Shrinkage, xflow, 24 hrs (5)
Wildstufe Absorption (23 C7 30 % KH)	0.02 % ISO 62	0.02	Moisture Absorption (23°C / 50% RH)

Source GMD, last updated:2009/12/31

Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	220 - 250	°C
Front - Zone 3 Temperature	250 - 260	°C
Middle - Zone 2 Temperature	245 - 255	°C
Rear - Zone 1 Temperature	230 - 245	°C
Mold Temperature	40 - 65	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:2009/12/31

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.
- (5) 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.

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