



Eco Meplen® Polypropylene

| PROPERTY | UNIT | STANDARD | IC M10 BK | IC M20 BK | IH C20 | IH C30 | IH C40 |
|---------------------------------------|----------|------------|-----------|-----------|----------|----------|----------|
| Density (23°C) | g/cm3 | ISO 1183 | 0,94 | 0,94 | 1,04 | 1,13 | 1,23 |
| MFI | g/10 min | ISO 1133 | 10 | 20 | 10 | 10 | 10 |
| MFI condition | °C/kg | ISO 1133 | 230/2,16 | 230/2,16 | 230/2,16 | 230/2,16 | 230/2,16 |
| Shore | - | ISO 868 | 66 | 68 | 70 | 72 | 72 |
| Shore condition | A/D | ISO 868 | D | D | D | D | D |
| Water absorption (24h/23°C) | % | ISO 62 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 |
| Water absorption (saturation) | % | ISO 62 | - | - | - | - | - |
| Filler content | % | ISO 3451 | - | - | 20 | 30 | 40 |
| Mould Shrinkage (parallel) | % | ISO 294-4 | - | - | 1,4/1,8 | 1,2/1,6 | 1,1/1,5 |
| Izod impact (notch / 23°C) - dry/cond | J/m | ISO 180/1A | 8 | 8 | 3 | 3 | 3 |
| Izod impact (notch / 0°C) - dry/cond | J/m | ISO 180/1A | - | - | - | - | - |
| Tensile yield strenght - dry/cond | N/mm2 | ISO 527-2 | 20 | 22 | 25 | 23 | 20 |
| Tensile yield strain - dry/cond | % | ISO 527-2 | - | - | - | - | - |
| Tensile break strenght - dry/cond | N/mm2 | ISO 527-2 | - | - | - | - | - |
| Elongation at break - dry/cond | % | ISO 527-2 | 40 | 40 | 40 | 30 | 20 |
| Tensile modulus - dry/cond | N/mm2 | ISO 527-2 | 1100 | 1150 | 1900 | 2200 | 2800 |
| Flexural modulus - dry/cond | N/mm2 | ISO 178 | 1000 | 1100 | 1800 | 2100 | 2700 |
| HDT (0,455 Mpa) | °C | ISO 75-2 | 95 | 100 | 110 | 112 | 115 |
| HDT (1820 Mpa) | °C | ISO 75-2 | - | - | 58 | 60 | 61 |
| VICAT (10 N) | °C | ISO 306 | 145 | 150 | 146 | 148 | 150 |
| VICAT (50 N) | °C | ISO 306 | 60 | 70 | 85 | 90 | 95 |
| Melting temperature (DSC) | °C | ISO 11357 | 165 | 165 | 165 | 165 | 165 |

PHYSICAL

MECHANICAL

THERMAL



Eco compounds are made utilizing 30% of recycled polymers at least. These products are certified by CSI CERT and branded with "CSI Recycled plastic



> **ECO MEPLEN IC M10 BK**
Polypropylene copolymer injection moulding, medium flow, general porpouse.

> **ECO MEPLEN IC M20 BK**
Polypropylene copolymer injection moulding, easy flow, general porpouse.

> **ECO MEPLEN IH C20**
Polypropylene homopolymer, calcium carbonate 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> **ECO MEPLEN IH C30**
Polypropylene homopolymer, calcium carbonate 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> **ECO MEPLEN IH C40**
Polypropylene homopolymer, calcium carbonate 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

Eco Meplen® Polypropylene

| PROPERTY | UNIT | STANDARD | IH T20 | IH T30 | IH T40 | IH F30 | IH F40 |
|---------------------------------------|-------------------|------------|----------|----------|----------|----------|----------|
| Density (23°C) | g/cm ³ | ISO 1183 | 1,04 | 1,13 | 1,23 | 1,12 | 1,21 |
| MFI | g/10 min | ISO 1133 | 10 | 10 | 10 | 9 | 9 |
| MFI condition | °C/kg | ISO 1133 | 230/2,16 | 230/2,16 | 230/2,16 | 230/2,16 | 230/2,16 |
| Shore | - | ISO 868 | 74 | 75 | 76 | 78 | 78 |
| Shore condition | A/D | ISO 868 | D | D | D | D | D |
| Water absorption (24h/23°C) | % | ISO 62 | 0,02 | 0,02 | 0,02 | 0,07 | 0,07 |
| Water absorption (saturation) | % | ISO 62 | - | - | - | - | - |
| Filler content | % | ISO 3451 | 20 | 30 | 40 | 30 | 40 |
| Mould Shrinkage (parallel) | % | ISO 294-4 | 1,1/1,5 | 0,9/1,3 | 0,7/1,1 | 0,1/0,4 | 0,1/0,3 |
| Izod impact (notch / 23°C) - dry/cond | J/m | ISO 180/1A | 3 | 3 | 2,5 | 10 | 10 |
| Izod impact (notch / 0°C) - dry/cond | J/m | ISO 180/1A | - | - | - | - | - |
| Tensile yield strenght - dry/cond | N/mm ² | ISO 527-2 | 30 | 28 | 26 | 78 | 80 |
| Tensile yield strain - dry/cond | % | ISO 527-2 | - | - | - | - | - |
| Tensile break strenght - dry/cond | N/mm ² | ISO 527-2 | - | - | - | - | - |
| Elongation at break - dry/cond | % | ISO 527-2 | 20 | 20 | 20 | 5 | 3 |
| Tensile modulus - dry/cond | N/mm ² | ISO 527-2 | 2300 | 2900 | 3400 | 5800 | 7000 |
| Flexural modulus - dry/cond | N/mm ² | ISO 178 | 2000 | 2800 | 3500 | 5300 | 6500 |
| HDT (0,455 Mpa) | °C | ISO 75-2 | 120 | 125 | 130 | 155 | 157 |
| HDT (1820 Mpa) | °C | ISO 75-2 | 65 | 70 | 75 | 140 | 145 |
| VICAT (10 N) | °C | ISO 306 | 150 | 150 | 150 | 158 | 158 |
| VICAT (50 N) | °C | ISO 306 | 90 | 90 | 105 | 130 | 130 |
| Melting temperature (DSC) | °C | ISO 11357 | 165 | 165 | 165 | 165 | 165 |

> ECO MEPLEN IH T20

Polypropylene homopolymer, talc 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IH T30

Polypropylene homopolymer, talc 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IH T40

Polypropylene homopolymer, talc 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IH F30

Polypropylene homopolymer, glass fibre reinforced 30% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> ECO MEPLEN IH F40

Polypropylene homopolymer, glass fibre reinforced 40% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.



Eco compounds are made utilizing 30% of recycled polymers at least. These products are certified by CSI CERT and branded with "CSI Recycled plastic"



Eco Meplen® Polypropylene

| PROPERTY | UNIT | STANDARD | IH F50 | IH S30 | IC C20 | IC C30 | IC C40 |
|---------------------------------------|-------------------|------------|----------|----------|----------|----------|----------|
| Density (23°C) | g/cm ³ | ISO 1183 | 1,33 | 1,12 | 1,05 | 1,12 | 1,23 |
| MFI | g/10 min | ISO 1133 | 9 | 10 | 10 | 10 | 10 |
| MFI condition | °C/kg | ISO 1133 | 230/2,16 | 230/2,16 | 230/2,16 | 230/2,16 | 230/2,16 |
| Shore | - | ISO 868 | 78 | 74 | 70 | 72 | 72 |
| Shore condition | A/D | ISO 868 | 0 | 0 | 0 | 0 | 0 |
| Water absorption (24h/23°C) | % | ISO 62 | 0,07 | - | - | - | - |
| Water absorption (saturation) | % | ISO 62 | - | - | - | - | - |
| Filler content | % | ISO 3451 | 50 | 30 | 20 | 30 | 40 |
| Mould Shrinkage (parallel) | % | ISO 294-4 | 0,1/0,3 | 0,8/1,0 | 1,4/1,8 | 1,2/1,6 | 1,1/1,5 |
| Izod impact (notch / 23°C) - dry/cond | J/m | ISO 180/1A | 8 | 2,5 | 4 | 4 | 3,5 |
| Izod impact (notch / 0°C) - dry/cond | J/m | ISO 180/1A | - | - | - | - | - |
| Tensile yield strenght - dry/cond | N/mm ² | ISO 527-2 | 82 | 20 | 24 | 22 | 19 |
| Tensile yield strain - dry/cond | % | ISO 527-2 | - | - | - | - | - |
| Tensile break strenght - dry/cond | N/mm ² | ISO 527-2 | - | - | - | - | - |
| Elongation at break - dry/cond | % | ISO 527-2 | 3 | 50 | 45 | 35 | 25 |
| Tensile modulus - dry/cond | N/mm ² | ISO 527-2 | 9800 | 1700 | 1800 | 2100 | 2600 |
| Flexural modulus - dry/cond | N/mm ² | ISO 178 | 9000 | 1800 | 1600 | 1900 | 2400 |
| HDT (0,455 Mpa) | °C | ISO 75-2 | 162 | 115 | 100 | 102 | 105 |
| HDT (1820 Mpa) | °C | ISO 75-2 | 145 | 55 | 56 | 58 | 59 |
| VICAT (10 N) | °C | ISO 306 | 162 | 148 | 140 | 145 | 148 |
| VICAT (50 N) | °C | ISO 306 | 142 | 88 | 80 | 85 | 90 |
| Melting temperature (DSC) | °C | ISO 11357 | 165 | 165 | 165 | 165 | 165 |

> ECO MEPLEN IH F50

Polypropylene homopolymer, glass fibre reinforced 50% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> ECO MEPLEN IH S30

Polypropylene homopolymer, glass beads filled 30%. Easy molding. Natural, all colours. H: heat stabilized, L: UV stabilized.

> ECO MEPLEN IC C20

Polypropylene copolymer, calcium carbonate 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IC C30

Polypropylene copolymer, calcium carbonate 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IC C40

Polypropylene copolymer, calcium carbonate 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.



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Eco Meplen® Polypropylene

| PROPERTY | UNIT | STANDARD | IC T20 | IC T30 | IC T40 | IC F30 | IC F40 |
|---------------------------------------|----------|------------|----------|----------|----------|----------|----------|
| Density (23°C) | g/cm3 | ISO 1183 | 1,04 | 1,13 | 1,23 | 1,12 | 1,21 |
| MFI | g/10 min | ISO 1133 | 10 | 10 | 10 | 9 | 9 |
| MFI condition | °C/kg | ISO 1133 | 230/2,16 | 230/2,16 | 230/2,16 | 230/2,16 | 230/2,16 |
| Shore | - | ISO 868 | 74 | 75 | 76 | 76 | 76 |
| Shore condition | A/D | ISO 868 | D | D | D | D | D |
| Water absorption (24h/23°C) | % | ISO 62 | - | - | - | - | - |
| Water absorption (saturation) | % | ISO 62 | - | - | - | - | - |
| Filler content | % | ISO 3451 | 20 | 30 | 40 | 30 | 40 |
| Mould Shrinkage (parallel) | % | ISO 294-4 | 1,1/1,5 | 0,9/1,3 | 0,7/1,1 | 0,1/0,4 | 0,1/0,3 |
| Izod impact (notch / 23°C) - dry/cond | J/m | ISO 180/1A | 4 | 4 | 3,5 | 9 | 10 |
| Izod impact (notch / 0°C) - dry/cond | J/m | ISO 180/1A | - | - | - | - | - |
| Tensile yield strenght - dry/cond | N/mm2 | ISO 527-2 | 23 | 23 | 21 | 68 | 75 |
| Tensile yield strain - dry/cond | % | ISO 527-2 | - | - | - | - | - |
| Tensile break strenght - dry/cond | N/mm2 | ISO 527-2 | - | - | - | - | - |
| Elongation at break - dry/cond | % | ISO 527-2 | 40 | 30 | 20 | 10 | 6 |
| Tensile modulus - dry/cond | N/mm2 | ISO 527-2 | 2200 | 2800 | 3200 | 5200 | 6100 |
| Flexural modulus - dry/cond | N/mm2 | ISO 178 | 2000 | 2600 | 3000 | 4200 | 5200 |
| HDT (0,455 Mpa) | °C | ISO 75-2 | 115 | 120 | 125 | 150 | 152 |
| HDT (1820 Mpa) | °C | ISO 75-2 | 62 | 67 | 72 | 130 | 135 |
| VICAT (10 N) | °C | ISO 306 | 145 | 147 | 150 | 142 | 145 |
| VICAT (50 N) | °C | ISO 306 | 85 | 90 | 95 | 120 | 125 |
| Melting temperature (DSC) | °C | ISO 11357 | 165 | 165 | 165 | 165 | 165 |

> ECO MEPLEN IC T20

Polypropylene copolymer, talc 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IC T30

Polypropylene copolymer, talc 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IC T40

Polypropylene copolymer, talc 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IC F30

Polypropylene copolymer, glass fibre reinforced 30% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> ECO MEPLEN IC F40

Polypropylene copolymer, glass fibre reinforced 40% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.



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Eco Meplen® Polypropylene

Eco Meytel® Polyamide

| PROPERTY | UNIT | STANDARD | IC F50 | IC S30 | I6 BK | I6 F20 BK | I6 F30 BK | |
|---------------------------|---------------------------------------|-------------------|------------|----------|----------|-----------|-----------|-----------|
| PHYSICAL | Density (23°C) | g/cm ³ | ISO 1183 | 1,33 | 1,12 | 1,13 | 1,28 | 1,36 |
| | MFI | g/10 min | ISO 1133 | 9 | 10 | - | - | - |
| | MFI condition | °C/kg | ISO 1133 | 230/2,16 | 230/2,16 | - | - | - |
| | Shore | - | ISO 868 | 76 | 74 | - | - | - |
| | Shore condition | A/D | ISO 868 | D | D | - | - | - |
| | Water absorption (24h/23°C) | % | ISO 62 | - | - | 1,9 | 2,3 | 1,9 |
| | Water absorption (saturation) | % | ISO 62 | - | - | 9 | 7,2 | 6,3 |
| | Filler content | % | ISO 3451 | 50 | 30 | - | 20 | 30 |
| | Mould Shrinkage (parallel) | % | ISO 294-4 | 0,1/0,3 | 0,8/1,0 | 1,3/1,7 | 0,35 | 0,2 |
| MECHANICAL | Izod impact (notch / 23°C) - dry/cond | J/m | ISO 180/1A | 11 | 3,5 | 7/20 | 6/8 | 7/8 |
| | Izod impact (notch / 0°C) - dry/cond | J/m | ISO 180/1A | - | - | 3 | 4 | 5 |
| | Tensile yield strenght - dry/cond | N/mm ² | ISO 527-2 | 80 | 19 | 55 | - | - |
| | Tensile yield strain - dry/cond | % | ISO 527-2 | - | - | 4 | - | - |
| | Tensile break strenght - dry/cond | N/mm ² | ISO 527-2 | - | - | - | 95/75 | 120/90 |
| | Elongation at break - dry/cond | % | ISO 527-2 | 4 | 60 | 80/150 | 5/10 | 4/8 |
| | Tensile modulus - dry/cond | N/mm ² | ISO 527-2 | 11000 | 1800 | 2400/1100 | 6000/4500 | 7500/5800 |
| THERMAL | Flexural modulus - dry/cond | N/mm ² | ISO 178 | 8600 | 1600 | 2200/1000 | 4800/3500 | 7300/4800 |
| | HDT (0,455 Mpa) | °C | ISO 75-2 | 157 | 110 | 150 | 200 | 208 |
| | HDT (1820 Mpa) | °C | ISO 75-2 | 140 | 50 | 50 | 195 | 205 |
| | VICAT (10 N) | °C | ISO 306 | 155 | 143 | - | - | - |
| | VICAT (50 N) | °C | ISO 306 | 135 | 83 | 190 | 205 | 210 |
| Melting temperature (DSC) | °C | ISO 11357 | 165 | 165 | 220 | 220 | 220 | |

> ECO MEPLEN IC F50

Polypropylene copolymer, glass fibre reinforced 50% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> ECO MEPLEN IC S30

Polypropylene copolymer, glass beads filled 30%. Easy molding. Natural, all colours. H: heat stabilized, L: UV stabilized.

> ECO MEYTEL I6 BK

Polyamide 6 general purpose. Black.

> ECO MEYTEL I6 F20 BK

Polyamide 6 glass fibre reinforced 20%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I6 F30 BK

Polyamide 6 glass fibre reinforced 30%. General purpose, black. H: heat stabilized.



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