

COC & COP Optical Grade Films

| Properties | UOM | AM-4634 | AM-4635 | AM-4636 | AM-4637 | AM-4638 | AM-4465 | AM-4860 | AM-4861 | AM-4862 |
|-------------------------------|-------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------------|-------------------------|-------------------------|
| Specific gravity | - | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.02 | 1.02 | 1.02 |
| Water absorption | % | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 0.01 | 0.01 |
| Moisture permeability | g/m ² - 24hr | 0.3 | 0.29 | 0.29 | 0.3 | - | 0.3 | 0.8 | 1.3 | - |
| Light transmittance | % | 92 | 92 | 92 | 92 | 92 | 92 | 91 | - | - |
| Refractive index | | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | - | - |
| Glass transition temperature | C | 70 | 105 | 100 | 136 | 163 | 136 | 78 | 138 | 158 |
| Heat distortion temperature | C | 68 | 101 | 99 | 136 | 161 | 136 | - | - | 156 |
| Thermal decomposition temp | C | 420 | 420 | 420 | 420 | 420 | 420 | - | - | - |
| Linear expansion coefficient | cm/cm ² | 7×10 ⁻⁵ | 7×10 ⁻⁵ | 7×10 ⁻⁵ | 7×10 ⁻⁵ | 6×10 ⁻⁵ | 7×10 ⁻⁵ | - | - | - |
| Melt flow rate | g/10min | 27 | 20 | 60 | 20 | 7 | 20 | 12cm ³ /10min | 1cm ³ /10min | 4cm ³ /10min |
| Flexural modulus | MPa | 1900 | 2100 | 2100 | 2200 | 2600 | 2200 | - | - | - |
| Flexural strength | MPa | 65 | 80 | 76 | 94 | 119 | 94 | - | - | - |
| Tensile strength | MPa | 50 | 53 | 53 | 61 | 73 | 61 | 57 | 55 | 60 |
| Tensile modulus | MPa | 1700 | 2200 | 2100 | 2400 | 2700 | 2400 | 2200 | 2400 | 3000 |
| Tensile elongation | % | 100 | 90 | 60 | 20 | 10 | 20 | 2.9 | 2.4 | - |
| Izod impact strength | KJ/m ³ | 9 | 6 | 2 | 3 | 3 | 3 | - | - | - |
| Dupont impact strength | J | 35 | 36 | 26 | 16 | 1 | 16 | - | - | - |
| Rockwell hardness | | - | 20 | 20 | 50 | 75 | 50 | - | - | - |
| Volume resistivity | Ω/m | >10 ¹⁶ | >10 ¹⁶ | >10 ¹⁶ | >10 ¹⁶ | >10 ¹⁶ | >10 ¹⁶ | - | - | >10 ¹⁴ |
| Dielectric breakdown strength | KV/mm | >70 | >70 | >70 | >70 | >70 | >70 | - | - | - |
| Dielectric constant | | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | - | - | - |
| Dielectric loss tangent | | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | - | - | - |
| UL flammability rating | Class | 94HB | 94HB | 94HB | 94HB | 94HB | 94HB | 94HB | 94HB | 94HB |

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