

CHIMEI

奇美實業股份有限公司
CHI MEI CORPORATION

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Typical Properties of WONDERLOY® PC/ABS

| Properties | ISO | Din | Unit | Test Method | Wonderloy PC/ABS | | | | |
|--|--------|---------|-------------------------|-------------------|-------------------------------------|------------------------|----------------------|----------------------------|--------------------------|
| | | | | | Flame Retardant | | General | | |
| | | | | | PC-510 | PC-540 | PC-345 | PC-365 | PC-385 |
| Melt Volume-Flow Rate | 1133 | | cm ³ /10 min | 260°C×2.16kg | 23.5 | 23.5 | — | — | — |
| | | | | 260°C×3.8kg | — | — | — | — | — |
| Spiral flow length | - | - | mm | CHIMEI method | — | — | 119 | 98 | 83 |
| Vicat Softening Temp. | 306 | 53460 | °C | 1 Kg, 50°C/hr | 95 | 106 | 125 | 136 | 139 |
| | | | °C | 5 Kg, 50°C/hr | 88 | 99 | 110 | 123 | 129 |
| H.D.T | 75 | 53461 | °C | 1.80MPa, unanneal | 76 | 85 | 95 | 106 | 108 |
| | | | °C | 1.80MPa, anneal | 87 | 96 | 106 | 117 | 119 |
| Izod Impact Strength | 180/1A | — | KJ/m ² | 1/8" notched | 50 | 43 | 39 | 45 | 55 |
| | 180/1U | — | | 1/8" unnotched | — | — | — | — | — |
| Charpy Impact Strength | 179 | — | KJ/m ² | Notched | — | — | — | — | — |
| | | — | | Unnotched | — | — | — | — | — |
| Tensile Strength | 527 | 53455 | MPa | 50mm/min,yield | 57 | 64 | 45 | 50 | 50 |
| | | | MPa | 50mm/min,break | 45 | 53 | 39 | 46 | 46 |
| Tensile Elongation | 527 | 53455 | % | 50mm/min | 55 | 95 | 80 | 80 | 85 |
| Flexural Strength | 178 | 53452 | MPa | 2mm/min | 91 | 98 | 75 | 80 | 80 |
| Flexural Modulus | 178 | 53452 | MPa | 2mm/min | 2600 | 2500 | 2300 | 2300 | 2350 |
| Ball Indentation Hardness | 2039-1 | 53456 | N/mm ² | H358/30 | — | — | — | — | — |
| Flammability | | | — | UL-94 | 1.5mm V-0 2.0mm 5VB 3.0mm 5VA | 1.5mm V-0 2.0mm 5VB | 1.5mm HB 3.0mm HB | 1.5mm HB 3.0mm HB | 1.5mm HB 3.0mm HB |
| Mass Density | 1183 | 53479-A | g/cm ³ | | 1.17 | 1.18 | 1.10 | 1.13 | 1.14 |
| Characteristics/Principal Applications | | | | | High Flow | High Heat | High Flow | High Heat Medium Impact | High Heat High Impact |

Note : This Technical data sheet shown above is for reference only.