

1.TYPICAL

PROPERTIES

OF



ABS740

KUMHOCHEMICALS,

| Test Item | Test Condition | Unit | ASTM | Value |
|------------------------------|---|---|-------|------------------|
| Mechanical Properties | | | | |
| Tensile Strength | 73F | Kg _f /cm ² (PSI) | D638 | 420 (6000) |
| Elongation | 5mm/min | % | D638 | 60 |
| Flexural Strength | 73F | Kg _f /cm ² (PSI) | D790 | 600 (8500) |
| Flexural Modulus | 73F | Kg _f /cm ² (PSI) | D790 | 21000 (29800) |
| Rockwell Hardness | L scale | - | D785 | 98 |
| Impact Properties | | | | |
| Izod Impact strength | 3.2mm, Notched, 23C(73F) | Kg.cm/cm (ft.lb/in) | D256 | 37 (6.8) |
| | 6.4mm, Notched, 23C(73F) | Kg.cm/cm (ft.lb/in) | D256 | 28 (5.1) |
| | 3.2mm, Notched, -30C(-20F) | Kg.cm/cm (ft.lb/in) | D256 | |
| | 6.4mm, Notched, -30C(-20F) | Kg.cm/cm (ft.lb/in) | D256 | |
| Thermal Properties | | | | |
| Heat Distortion Temp. | 4.5kg _f /cm ² (66psi), unannealed | □(□) | D648 | |
| | 18.6kg _f /cm ² (264psi), unannealed | □(□) | D648 | 80 (176) |
| Vicat Softening Temp. | - | □(□) | D1525 | |
| Physical Properties | | | | |
| Melt Flow Index | 200C, 5kg 220C, 10kg 230C, 3.8kg | g/10min g/10min g/10min | D1238 | 2.1 |
| Mold Shrinkage | - | % | D955 | 0.4-0.7 |
| Specific Gravity | - | | D792 | 1.04 |
| Water absorbtion | 24hr, Immersion in water | % | D570 | |
| UV Resistance | 300Hr, Ivory | □E | D4459 | |
| Dielectric Strength | - | V/mil | D149 | |
| Volume Resistivity | - | Ω | D257 | |
| Flammability | | | | |
| | 1/16"(1.6mm) | Class | UL94 | HB |
| | 1/12"(2.2mm) | Class | UL94 | HB |
| | 1/18"(3.2mm) | Class | UL94 | HB |