

| Technical Properties: PLYFORM ABS FR – R-118 | | | | |
|---|---|-------|-------------------|---------------------|
| Construction: | Multi-layer or mono-layer fire retardant grade ABS | | | |
| Edition / Date: | 2/08-07-2024 | | | |
| Characteristics | Value* | Unit* | Test method* | |
| PHYSICAL PROPERTIES | | | | |
| Density | 23°C | 1.19 | g/cm ³ | ISO 1183 |
| MECHANICAL PROPERTIES | | | | |
| Tensile E-Modulus | 23°C | 2300 | MPa | ISO 527 |
| Yield stress | 23°C | 44 | MPa | ISO 527 |
| Strain at yield | 23°C | 2.4 | % | ISO 527 |
| IZOD notched impact strength | 23°C | 19 | kJ/m | ISO 180/1A |
| | -30°C | 8 | kJ/m | ISO 180/1A |
| THERMAL PROPERTIES | | | | |
| Vicat B | 50°C/h 50N | 99 | °C | ISO 306/B |
| HDT (annealed) | 1.82 MPa | 96 | °C | ISO 75 A |
| BURNING BEHAVIOUR | | | | |
| Flammability classification # | 6, 7, and 8 | | ECE R-118 | |
| MISCELLANEOUS PROPERTIES | | | | |
| Moulding shrinkage | 0.4– 0.6 | | % | ISO 294/4 |
| Thermoforming temperature range | 160 to 210 | | °C | General test method |

* Tested on raw material (natural colour).

Fire testing carried out by Warrington Fire 21.12.22 (tests 525992, 525993, and 525994).

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