

BR 16

General purpose, 30% Glass filled Polyamide 6. Suitable for a wide range of applications this grade offers a good balance of flow, tensile, flexural and impact strength. Available with enhanced UV (BR26), heat stability (BR36), UV and Heat resistance (BR76). Colour matched compounds and customer specific performance requirements are available on request.

Physical Properties	Test Method	SI Units
24 Hr Water Absorption	ISO 62	1.1 %
Density	ISO 1183	1.35 g/cm ³
Moulding shrinkage		0.5 %
Rockwell Hardness	ISO 2039	120 R scale
Mechanical Properties	Test Method	SI Units
Elongation at Break	ISO 527	3 %
Flexural Modulus	ISO 178	8000 Mpa
Flexural Strength	ISO 178	230 Mpa
Tensile Strength at Break	ISO 527	180 Mpa
Impact Properties	Test Method	SI Units
Izod Impact Strength (Notched)	ISO 180	12 KJ/m ²
Thermal Properties	Test Method	SI Units
Heat Distortion Temperature - @ 0.45Mpa	ISO 75-2	215 °C
Heat Distortion Temperature - @ 1.8 Mpa	ISO 75-2	205 °C
Melting Point	ASTM D2117	221 °C
Flammability	Test Method	SI Units
Flammability @ 1.6mm thickness	UL94 EQUIVALENT	HB Rating
FMV SS302	ISO 3795	<100 mm/min
Glow Wire Test	IEC 695	650
Electrical Properties	Test Method	SI Units
CTI, solution A	IEC 112	550 V
Surface Resistivity	ASTM D257	10 exp 13 Ohm

Additional Information:

Perrite manufacture an extensive range of engineering thermoplastic compounds. All grades can be colour matched to meet specific customer requirements. Test values: Unless otherwise stated all test values have been established using standard test specimens, in natural colour, at 23 °C. These are typical values and are not intended to be used as sales specifications. The information in this publication is based on our current technical knowledge and experience. In view of the large number of factors that may influence the processing and use of our products, the present information does not relieve processors and manufacturers of the need to carry out their own tests and experiments. Contact Perrite for MSDS, general guides and/or additional information.