KEPITAL® ET-20A BK

A carbon black filled, conductive grade
KEPITAL® Et-20A BK is a conductive grade for general injection molding. Features superior toughness and fuel-contact resistance. Suitable for automotive fuel module parts.

Rheological properties

Moulding shrinkage, parallel	2.0	%	ISO 294-4, 2577

Typical mechanical properties

Yield stress, 50mm/min	52	MPa	ISO 527-1/-2
Yield strain, 50mm/min	8	%	ISO 527-1/-2
Flexural Modulus	2450	MPa	ISO 178
Flexural Strength	76	MPa	ISO 178
Charpy notched impact strength, 23°C	5.5	kJ/m²	ISO 179/1eA
Poisson's ratio	0.384		

Thermal properties

Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	92	°C	ISO 75-1/-2

Electrical properties

Surface resistivity	1000	Ohm	IEC 62631-3-2

Other properties

Density	1390	kg/m³	ISO 1183

Chemical Media Resistance

Standard Fuels

- ✔ ISO 1817 Liquid 1 - E5, 60°C
- ✔ ISO 1817 Liquid 2 - M15E4, 60°C
- ✔ ISO 1817 Liquid 3 - M3E7, 60°C
- ✔ ISO 1817 Liquid 4 - M15, 60°C
- ✔ Standard fuel without alcohol (pref. ISO 1817 Liquid C), 23°C
- ✔ Standard fuel with alcohol (pref. ISO 1817 Liquid 4), 23°C

Symbols used:

✔ possibly resistant
Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).

✘ not recommended - see explanation
Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

Celanese
The chemistry inside innovation™

KEPITAL® ET-20A BK

Revised: 2023-05-10 Source: Celanese Materials Database