

Product description:

KIEP03 ISM EPDM 90 is a compound crafted to meet the extensive weathering properties. It is a terpolymer of ethylene, propylene with incorporation of third non conjugated diene monomer. The compound is sulfur cured.

Chemistry:

The compound structure consists of ethylene and propylene which makes the saturation excellent, which with addition of diene monomer gives the cure site monomer at the side chain accelerating the cure mechanism without affecting the saturation.

Properties:

The compound covers a wide range of weather properties due to the stronger sigma bonding in main chain and offers better low temperature flexibility than other general purpose rubbers.

Applications:

It is used automotive applications such as weather strip, seals, and in brake systems. It is also used in industrial applications such as O-rings, hoses and gaskets as well as in electrical insulators.

Service temperature:

-55°C to 100°C

Physical properties:

| S.No | Description | ASTM Standard | Units | Specification |
|------|---|------------------|-------------------|---------------------|
| I | Hardness | D 2240 | Shore A | 90 ± 5 |
| II | Tensile Strength (Min) | D 412 | MPa | 10 |
| III | Elongation (Min) | D 412 | % | 125 |
| IV | Compression Set (Max) (22hrs@70°C) | D395 Method B | % | 25 |
| V | Heat Ageing (70hrs @ 100°C) Hardness Change Tensile Change(Max) Elongation Change(Max) | D573 | Shore A % % | ± 5 ± 30 - 50 |

NOTE The above compound meets as per ASTM D 2000 M3 BA 910 B13.

The technical datasheets are derived on the basis of the service conditions and end user preference in which the values derived are given over a range of specifications which are cross checked over a variety of trials and approved with the end user conditions and calculated over a prolonged time



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