



**Vikas Global One Ltd.**

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## Material Safety Data Sheet

Update on: 1<sup>ST</sup> August 2013

# Vee-prene

## THERMO PLASTIC RUBBER COMPOUND

### ➤ Product Description:

Thermo Plastic Rubber is a polymer blend or compound, with both thermoplastics and elastomeric properties, which provides dual advantage of "Characteristics of Rubber and Process ability of Plastics". Like most of the plastics. TPRs can be subjected to different processes like injection / compression moulding, extrusion etc. The scrap & runners of TPRs can be easily & repeatedly put to re-use/re-processing. TPR is mainly used for making shoe soles, liners, seals, toys, sports goods, soft grips, mats etc.

### ➤ PRODUCT IDENTIFICATION:

THERMOPLASTIC RUBBER COMPOUNDS

### ➤ Physical & Chemical Properties:

| GRADE                | Specific Gravity | M.F.I      | Hardness   | Tensile Strength At Break | Elongation At Break | Tear Strength | Abrasion Resistance | Ross Flexing |
|----------------------|------------------|------------|------------|---------------------------|---------------------|---------------|---------------------|--------------|
| Test Method          | ASTM D792        | ASTM D1238 | ASTM D2240 | ASTM D 412                | ASTM D 412          | ASTM D 624    | ASTM D 53516        | ASTM D 1052  |
| Grade                |                  | gm/10 min  | Shore A    | Kg/cm <sup>2</sup>        | %                   | N/mm          | mm <sup>2</sup>     | No.of Cycles |
| Honey Colour VEC 60  | 0.935 + 0.015    | 30-40      | 58-62      | 42 + 5                    | 550 + □ 50          | 21-26         | 120-160             | 15000        |
| Opaque Colour VEC 60 | 0.985 + 0.015    | 40-60      | 58-62      | 40 + 3                    | 400 + □ 50          | 23-27         | 180-220             | 15000        |
| Transparent VEC-60   | 0.925 + 0.015    | 30-70      | 58-62      | 47 + 5                    | 650 + □ 50          | 22-30         | 120-140             | 15000        |
| Brown VEC 60         | 0.985 + 0.015    | 40-60      | 58-62      | 42 + 3                    | 400 + □ 50          | 22-25         | 180-260             | 15000        |
| Black VEC 60         | 0.985 + 0.015    | 40-60      | 58-62      | 42 + 3                    | 400 + □ 50          | 22-25         | 180-260             | 15000        |

### ➤ PRODUCT USE:

TPR used mainly for Shoe soles, Toys, sports goods, soft grip article application.



## ➤ POTENTIAL HAZARDS INFORMATION:

### FIRE HAZARD:

- FLASH (PILOTED) IGNITION TEMPERATURE:  $>343^{\circ}\text{C}$  (METHOD ASTM D 1929-77)
- SELF-IGNITION(NON-PILOTED)TEMPERATURE:  $>371^{\circ}\text{C}$ (METHOD: ASTM D 1929-77)
- EXTINGUISHING MEDIA: WATER SPRAY OR ANY CLASS A EXTINGUISHING AGENT.  
SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS AND OTHERS EXPOSED TO PRODUCTS OF COMBUSTION SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. CARBON MONOXIDE IS LIBERATED AS A TOXIC DECOMPOSITION

### REACTIVITY:

- STABILITY: THERMALLY STABLE TO  $260^{\circ}\text{C}$ .
- MATERIALS TO AVOID: IT MAY REACT WITH STRONG OXIDIZING CHEMICALS. TPR ALSO REACTS WITH ACETAL RESINS AT TEMPERATURES OF  $218^{\circ}\text{C}$  PRODUCING DECOMPOSITION OF THE ACETAL RESIN, AND FORMALDEHYDE AS A DECOMPOSITION PRODUCT.
- HAZARDOUS DECOMPOSITION PRODUCTS: SMOKE, CARBON MONOXIDE, AND POSSIBLY HYDROCARBONS MAY EVOLVE.

### HEALTH HAZARDS:

- EYE PROTECTION: THERMOPLASTIC RUBBER DOES NOT CAUSE SIGNIFICANT EYE IRRITATION OR EYE TOXICITY REQUIRING SPECIAL PROTECTION. USE GOOD INDUSTRIAL PRACTICE TO AVOID EYE CONTACT.
- SKIN PROTECTION: ALTHOUGH THERMOPLASTIC RUBBER DOES NOT PRESENT SIGNIFICANT SKIN CONCERN, MINIMIZE SKIN CONTAMINATION BY FOLLOWING GOOD INDUSTRIAL HYGIENE PRACTICE. WEARING PROTECTIVE GLOVES IS RECOMMENDED. WASH HANDS AND CONTAMINATED SKIN THOROUGHLY AFTER HANDLING.
- RESPIRATORY PROTECTION: AVOID BREATHING PROCESS VAPORS OR DUST. USE NIOSH APPROVED RESPIRATORY PROTECTION EQUIPMENT (FULL FACEPIECE RECOMMENDED) WHEN AIRBORNE EXPOSURE IS EXCESSIVE.
- VENTILATION: PROVIDE NATURAL OR MECHANICAL VENTILATION TO MINIMIZE EXPOSURE. IF PRACTICAL, USE LOCAL MECHANICAL EXHAUST VENTILATION AT SOURCES OF AIR CONTAMINATION SUCH AS OPEN PROCESS EQUIPMENT.

### FIRST AID MEASURES:

- **EYES:** THOROUGHLY FLUSH EYES WITH WATER, SEEK MEDICAL HELP IF THE IRRITATION PERSISTS.
- **SKIN:** WASH SKIN WITH WATER AND SOAP. SEEK MEDICAL HELP IF THE IRRITATION PERSISTS.
- **INHALATION:** MOVE TO FRESH AIR, SEEK MEDICAL HELP



➤ HANDLING & STORAGE:

- HANDLING:

USUAL PRECAUTIONS IN PELLET HANDLING SHOULD BE OBSERVED TO PREVENT CONTAMINATION BY DIRT OR OTHER MATERIALS.

- STORAGE:

AVOID LEAVING CONTAINER OPEN FOR PROLONGED PERIODS TO PREVENT EXPOSURE TO HUMIDITY. STORE IN A COOL, DRY PLACE.

➤ TRANSPORTATION:

Not Regulated

➤ DISPOSAL:

- REFER TO ALL FEDERAL, STATE AND LOCAL REGULATIONS PRIOR TO DISPOSITION. IF UNABLE TO MANAGE, CONTACT A FACILITY THAT COMPLIES WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

➤ PREPARED BY :

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➤ PREPARATION DATE:

24 APRIL, 2009

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