



# VIKAS ecOTECH LTD.

(Formerly Vikas GlobalOne Ltd.)

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## Vee-prene

THERMO PLASTIC RUBBER COMPOUND

**Material Safety Data Sheet**

Updated on: 1<sup>ST</sup> January 2016

➤ 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:  
COMPOUNDS

THERMOPLASTIC RUBBER

➤ 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:**

January 1st, 2016

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