

**WE DRIVE YOU
YOU DRIVE INDIA**

IPOL[®]
RUBBER PROCESS OILS
Trusted Since 1973



50
*years of
excellence*

RUBBER

PROCESS OILS

Pioneers in bespoke solution



AROMATIC OILS

The primary characteristics of aromatic hydrocarbon is the presence of the double bonded mix ring carbon structure. Aromatic extracts sourced from selected refineries and blended to meet stringent specifications for manufacturing of Tyres, Calendered and Moulded sheets, Tread Rubber, Belts etc.

APPLICATIONS

- Tyre
- Retread Rubbers
- Moulded and Extruded Products
- Calendered Products
- Rubber Mats
- Rubber Flooring
- Rubber Sheets
- Belts

COMPATIBILITY WITH POLYMERS

NR | SBR | PBR | RECLAIM RUBBER

| TESTS | TEST METHOD | IPOL 701 |
|-----------------------------------|--------------------|-------------|
| Appearance | Visual | Opaque/Dark |
| Colour | ASTM D 1500/Visual | Dark |
| Specific Gravity @ 29.5 °C | ASTM D 1298 | 0.970-1.030 |
| Kinematic Viscosity @100°C in CST | ASTM D 445 | 15-40 |
| Flash Point-COC°C, MIN | ASTM D 92 | 220 |
| Aniline Point°C, MAX | ASTM D 611 | 55 |
| Pour Point°C, MAX | ASTM D 97 | 27 |



PARAFFINIC OILS

This class of hydrocarbons constitutes branched chain or straight linked hydrocarbon molecules of various viscosity. As the chain length increases, the viscosity increases and the rubber process oil becomes more stable. They find extensive usage in EPDM & Butyl rubbers. High viscosity grades are recommended for use in EPDM profiles for better ageing characteristics of end products. IPOL has a wide range of Paraffinic Oil to suit the end application for optimum result. IPOL products are approved by various international EPDM & Butyl rubber manufacturers.

APPLICATIONS

- EPDM Profiles
- Heat Resistant Conveyor Belting
- Steam Hoses
- Butyl Tubes
- Microwave / LCM cured
- EPDM Profiles Gaskets etc.

COMPATIBILITY WITH POLYMERS

EPDM | BUTYL | RECLAIM RUBBER

| TESTS | TEST METHOD | IPOL 201 | IPOL 201 XP | IPOL 275 | IPOL 1423W | IPOL 2300 |
|----------------------------------|----------------------|-------------|---------------|-------------|-------------|-------------|
| Appearance | Visual | BR & CL | BR & CL | BR & CL | BR & CL | BR & CL |
| Colour | ASTM D 1500 / Visual | 2.5 Max | 0.5 Max | 1.5 Max | 5.5 Max | 5.5 Max |
| Specific Gravity @ 29.5 °C | ASTM D 1298 | 0.835-0.890 | 0.844 Typical | 0.830-0.870 | 0.880-0.910 | 0.870-0.910 |
| Kinematic Viscosity @40°C in CST | ASTM D 445 | 25-45 | 25-35 | 90-105 | 240-260 | 440-510 |
| Flash Point-COC °C, MIN | ASTM D 92 | 190 | 210 | 230 | 250 | 280 |
| Aniline Point °C | ASTM D 611 | 90-110 | 105 Min | 120-130 | 100-115 | 115-125 |
| Pour Point °C, MAX | ASTM D 97 | 0 | -18 | -12 | -3 | -3 |



NAPHTHENIC OILS

Naphthenics are class of hydrocarbon also referred to as 'cycloparaffins'. Though their structure is similar to aromatic ring but these are single bonded thus giving a stable structure. Several such hydrocarbon ring may be linked indicating a variety of available grades. Their unique colour stability, solubility and good thermal stability makes them ideal for moulded articles, slippers, LPG tubes, floortiles etc.

APPLICATIONS

- Extrusion
- Moulded profiles
- Slippers
- Micro Cellular Sheets
- LPG Tubing
- Shoe Soles
- Fire Fighting Hoses
- Garden Hoses
- Coloured Floor Tiles

COMPATIBILITY WITH POLYMERS

NR | SBR | PBR | EPDM | BUTYL RUBBER

| TESTS | TEST METHOD | IPOL 501 | IPOL RPO N-30 |
|----------------------------------|--------------------|-------------|---------------|
| Appearance | Visual | BR & CL | BR & CL |
| Colour | ASTM D 1500/Visual | 2.5 Max | 2.0 Max |
| Specific Gravity @ 29.5 °C | ASTM D 1298 | 0.850-0.900 | 0.880 – 0.920 |
| Kinematic Viscosity @40°C in CST | ASTM D 445 | 20-35 | 28- 32 |
| Flash Point-COC °C , MIN | ASTM D 92 | 160 | 160 |
| Aniline Point °C | ASTM D 611 | 70-85 | 75 – 85 |
| Pour Point °C , MAX | ASTM D 97 | 0 | -30 Typical |
| TAN , Mg KOH/gm | ASTM D 974 | - | 0.1 Max |



LOW PCA REACH COMPLIANT OILS

Non-Carcinogenic oils are used as alternative to Aromatic Oils to meet European Regulation (2005/69/EC) and are classified as Low PCA Oils. IPOL has wide range of NAP/MES/TRAE/RAE/ type of non Carcinogenic oils suitable for tyres end others applications.

APPLICATIONS

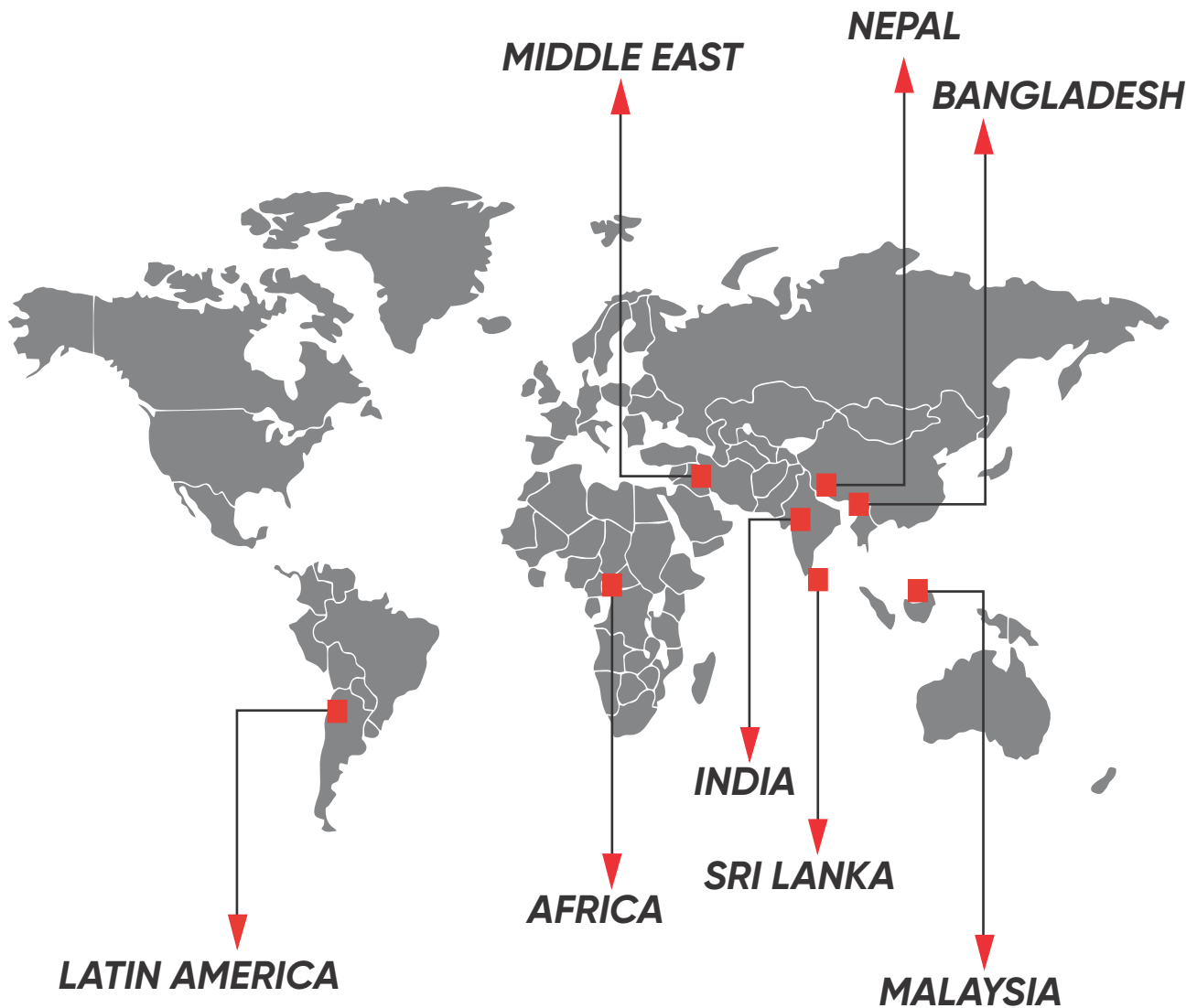
- Tyres
- Retreads
- Reclaim Rubbers
- Moulded Products
- Extruded Profiles
- Calendered Sheets

COMPATIBILITY WITH POLYMERS

NR | SBR | PBR | RECLAIM RUBBER

| TESTS | TEST METHOD | ARTEC 6800 | ARTEC 7000 | ARTEC 8800 | ARTEC 9000 | ARTEC 8730 |
|-----------------------------------|---------------------|-------------|-------------|-------------|-------------|-------------|
| TYPE | | MES | MES | TRAE | RAE | TDAE |
| Appearance | Visual | OPAQUE | 3OPAQUE | OPAQUE | OPAQUE | OPAQUE |
| Colour | ASTM D 1500/Visual) | Dark | Dark | Dark | Dark | Dark |
| Specific Gravity @ 29.5 °C | ASTM D 1298 | 0.880-0.940 | 0.880-0.930 | 0.900-0.960 | 0.950-1.010 | 0.930-0.970 |
| Kinematic Viscosity @100°C in CST | ASTM D 445 | 13.5-25 | 15-40 | 27-33 | 45.70 | 12.5 Min |
| Flash Point-COC °C , MIN | ASTM D 92 | 220 | 220 | 240 | 260 | 210 |
| Aniline Point °C | ASTM D 611 | 80-95 | 90-110 | 80-95 | 80 Max | 80 Max |
| SUM of 8 PAH | EN 16143 | <10 | <10 | <10 | <10 | <10 |

OUR BUSINESS PRESENCE



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