

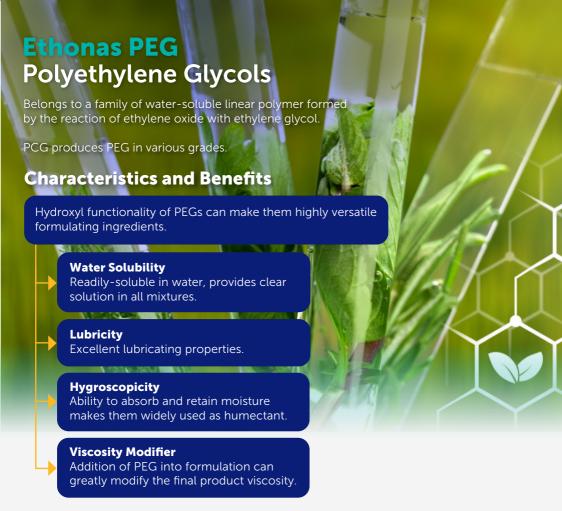
Overview of PETRONAS Chemicals Group Berhad

PETRONAS Chemicals Group Berhad (PCG) is the leading integrated chemicals producer in Malaysia and one of the largest in Southeast Asia. It operates 19 world-class manufacturing sites in Malaysia, Asia-Pacific, Europe and North America. With a total combined production capacity of 15.4 million metric tons per annum (mtpa), it is involved primarily in manufacturing, marketing and selling a diversified range of chemical products, including olefins, polymers, fertilisers, methanol, other basic chemicals, derivative products and specialty chemicals.

Listed on Bursa Malaysia with more than three decades of experience in the chemicals industry, PCG is established as part of the PETRONAS Group to maximise value from Malaysia's natural gas resources.

PCG is committed to ensuring that its business practices are in line with globally recognised standards for Economic, Environment, Social & Governance (EESG) practices. It is currently listed in the FTSE4Good Bursa Malaysia (F4GBM) Index and the Dow Jones SustainabilityTM World Index.





Physical Properties

PEG is largely dependent on its molecular weight.

| Solidification range | High | | | | Low |
|----------------------|----------|---------|---------|---------|---------|
| Solubility | Low | | | | High |
| Viscocity | High | | | | Low |
| Hygroscopicity | Low | | | | High |
| | | | | | |
| | PEG 1000 | PEG 600 | PEG 400 | PEG 300 | PEG 200 |

Applications

| | | _ | | | | | | | |
|------------------|---|---------|---------|---------|-----------|---------|----------|--|--|
| Application | Recommended Ethonas PEG | | | | | | | | |
| | Function | PEG 200 | PEG 300 | PEG 400 | PEG 400-A | PEG 600 | PEG 1000 | | |
| Antistatic Agent | Hygroscopicity | ٧ | ٧ | ٧ | | ٧ | | | |
| Dye Carrier | Viscosity Modifier, Solvency | ٧ | ٧ | ٧ | | ٧ | | | |
| Lubricants | Lubcricity | ٧ | ٧ | ٧ | | ٧ | ٧ | | |
| Inks | Water Solubility, Viscosity Modifier, Lubricity | ٧ | ٧ | ٧ | | ٧ | | | |
| Adhesives | Viscosity Modifier, Freezing/Melting Range | ٧ | ٧ | ٧ | | ٧ | | | |
| Industrial | Chemical Intermediate | ٧ | ٧ | ٧ | | ٧ | ٧ | | |
| Agrochemicals | Water Solubility, Solvency | ٧ | ٧ | | | | | | |
| Personal Care | Hygroscopicity | | | | ٧ | | | | |
| Pharmaceutical | Carrier | | | | ٧ | | | | |
| Ceramics | Water solubility, viscosity modifier, solvency, lubricity | ٧ | ٧ | ٧ | | ٧ | | | |

Product Properties

| Components | Unit | Ethonas PEG 200 | Ethonas PEG 300 | Ethonas PEG 400 | Ethonas PEG 400-A | Ethonas PEG 600 | Ethonas PEG 1000 |
|--------------------------|------|--------------------|--------------------|--------------------|----------------------|--------------------|---------------------|
| Average no of EO | - | 4 | 6 | 8 | 8 | 12 | 20 |
| Molecular weight (MW) | - | 190-210 | 285-315 | 380-420 | 380-420 | 570-630 | 950-1050 |
| pH (5% aq at 25°C) | - | 4.5-7.5 | 4.5-7.5 | 4.5-7.5 | 4.5-7.5 | 4.5-7.5 | 4.5-7.5 |
| Colour | PtCo | 25 max | 18 max | 18 max | 18 max | 18 max | 18 max |
| Water | wt% | 0.5max | 0.5max | 0.5max | 0.5max | 0.5max | 0.5max |
| Acidity, as Acetic | wt% | 0.02 max | 0.02 max | 0.02 max | 0.02 max | 0.02 max | 0.02 max |
| Viscosity @ 98°C | cSt | 4.0-4.8 | 5.4-6.4 | 6.8-8.0 | 6.8-8.0 | 9.9-11.3 | 16.0-19.0 |
| Total EG, DEG and TEG | wt% | - | - | - | 0.3 max | - | - |



For more information on PCG products



Connect with