

Technical Data Sheet

Benzoflex™ TPU-405 Plasticizer

Applications

- Polyurethanes

Product Description

Benzoflex™ TPU-405 is recommended as a plasticizer for Thermoplastic Urethane (TPU) applications that require an extension of the durometer range commonly attributed to TPUs, modification of the melt rheology characteristics of TPU-based compounds, easier processing, and cost effective extension of the TPU. This product has low color for transparent or color-sensitive applications.

Typical Properties

| Property | Typical Value, Units |
|-------------------------------------|----------------------------|
| General | |
| Acidity (wt%) | 0.1 max. |
| Color Pt-Co | 25-40 |
| Refractive Index @ 25°C | 1.52 |
| Specific Gravity @ 20°C/20°C | 1.12 |
| Hydroxyl Number | 5 max. |
| Boiling Point | 657 °F (347 °C) |
| Flash Point Setaflash Closed Cup | 360 °F (182 °C) |
| Freezing Point | -40 °F (-40 °C) |
| Vapor Pressure @ 20°C | <0.00001 torr (<0.0013 Pa) |
| Viscosity @ 25°C | 105 cP (105 mPa·s) |
| Wt/Vol @ 20°C | 9.35 lb/gal (1.12 kg/L) |

CHEMICAL INVENTORIES:

TSCA (US Toxic Substances Control Act): All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): All components of this product are listed on the DSL. Any impurities present in this product are exempt from listing.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): All components of this product are listed on AICS or otherwise comply with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): One or more components of this product are not listed in the Handbook.

ECL (Korean Toxic Substances Control Act): All components of this product are listed on the Korean inventory or otherwise comply with the Korean Toxic Substances Control Act.

Philippines Inventory (PICCS): All components of this product are listed on the Philippine inventory or otherwise comply with PICCS.

Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

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