



RESIPRENE® 1045

Thermoplastic Elastomer

DESCRIPTION

RESIPRENE® 1045 is a Thermoplastic Elastomer (TPE) easy to process and great for injection molding process

FEATURES

- Easy color match
- Excellent Processability
- Good Mechanical Properties
- 100% recyclable
- Process with thermoplastics traditional equipment
- No predrying

APPLICATIONS: Tools handles, pipes, impact modifier, tooth brush handles, seals, meshes, soft touch applications

PROPERTIES

| | ENGLISH | | S.I. | | STANDAR | |
|--------------------------------|--------------------|--------------|-------------------|--------------|-----------|------|
| PHYSICAL | | | | | | |
| Specific Gravity | lb/in ³ | 0.04 | g/cm ³ | 1.02 | - | - |
| Melt Flow Rate (230 oC/2.16Kg) | g/10 min | 3.50 | g/10 min | 3.50 | D1238 | ASTM |
| MECHANICAL | | | | | | |
| Tensile Strength, Break | psi | 402 | Mpa | 2.77 | D638 | ASTM |
| Break Elongation | % | 1,400 | % | 1,400 | D638 | ASTM |
| Tensile with 100% elongation | psi | 28 | Mpa | 0.19 | D638 | ASTM |
| Tensile with 200% elongation | psi | 45 | Mpa | 0.31 | D638 | ASTM |
| Tensile with 300% elongation | psi | 64 | Mpa | 0.44 | D638 | ASTM |
| HARDNESS | | | | | | |
| Shore A | - | 45 | - | 45 | DIN 53505 | DIN |

.Typical values represent average laboratory values and are intended as guides only, not as specific specification limits.

.Properties designated in this standar have been determined in accordance with the current issue of the specified testing methods

RESIPRENE® 1045, has a good stability in Melt Flow Rate. Maximum time of residence may vary with the size of the hussle. Generally, the hussle must be emptied if its out of operation for 5 to 8 minuts or more. Purge completely with a polyolefine before and after using this product

CONDITIONS

| | °C | °F |
|---------------------------------|-----------|-----------|
| Rear Barrel Temperature | (160-170) | (320-338) |
| Middle Barrel Temperature | (170-180) | (338-356) |
| Front Barrel Temperature | (180-190) | (356-374) |
| Nozzle Temperature | (200-210) | (392-410) |
| Mold Temperature | 45 | 113 |
| Maximum Recommended Temperature | 280 | 536 |

ADDITIONAL INFORMATION

WARNING:

As most plastics materials, combustion of this material may cause hazardous fumes and gases, as well as situations that could be dangerous for health, especially in closed places. It should be noted that excessive heating or long residence times may cause degradation or yellowing.

NOTE:

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Resirene S.A. de C.V.
 Km 15.5 carret. Fed. Puebla-Tlaxcala
 90780 Xicohtzinco, Tlaxcala, MEX
 MEX toll free 01 800 RESINAS
 USA toll free 1 866 372 3470



www.resirene.com