

PE1000R - Reprocessed Polyethylene PE1000

Other material names PE1000R: PE-UHMW with reclaim content, recycled, reclaimed, regenerat

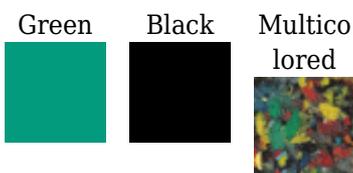
Material group: Polyethylene

This grade, partially composed of reprocessed PE1000 material, has an overall lower property level than the virgin PE1000. PE1000R grade shows a favorable price-performance ratio for applications in many kinds of industries with less demanding requirements.

Customers who place importance on the electrical properties of the material are cautioned that a proportion of PE1000AST can also be used in the production of the black version of this material, i.e. the resulting properties of the black alternative, such as specific internal and specific surface resistance of the material, may be variable and the manufacturer does not guarantee their value.



Color of material:



Typical applications:

- Wear strips, wear rails, wear guides
- Channels
- Rollers
- Conveyor and conveying equipment
- Lining applications: chutes, hoppers

The material is used in:

Beverage industry
Automobile industry
Wood processing

Features:

- Reduces noise
- Self-lubricating
- Chemical-, corrosion- and wear-resistant
- No moisture absorption
- Non-toxic, low-friction surface

Material availability: Material is in stock

Material properties table

Specific weight	0.93 g/cm ³
Yield strength	15 N/mm ²
Allowable mean pressure deformation 1%	4.50 N/mm ²
Allowable mean pressure deformation 2%	8.00 N/mm ²
Allowable mean pressure deformation 5%	14.00 N/mm ²
Tensibility	200 %
Tensile modulus	950 N/mm ²
Impact toughness	bez zlomu
Notched toughness	>80 kJ/m ²

Ball hardness	35 N/mm ²
Friction coefficient	0.15
Abrasive wear	150
Antistatic material	No
Specific internal resistance	10 ¹² Ω
Specific surface resistance	10 ¹² Ω.cm
Melting point	135 °C
Thermal expansion	20 · 10 ⁻⁵ /K
Thermal conductivity	0.41 W/(K.m)
Permanent use temperature	-150 ; 80 °C
Transient temperature of use	-150 ; 90 °C
Absorbability	0,01 %
Water absorption	0,1 %
Resistance - oils	resistant
Acid resistance	resistant
Durability - alcali	resistant
Food contact	No

Engineering plastics are supplied in the form of bars, plates, strips, tubes and sheets. From the semi-finished products the company TechPlasty has regularly in stock, we also supply blanks.

All standard and special materials are designed to meet your specific requirements. Their mechanical, thermal, and electrical properties and chemical resistance satisfy the most demanding requirements and this allows them to work even in the most difficult conditions. If you need advice when choosing the appropriate material for your application, please contact us. We'll gladly advise you. You can utilize the long-term experience of our technical advisors free-of-charge, who can visit you right in your operation and solve your requirements for engineering plastics directly at the site of their usage.

TechPlasty, s.r.o.

Kysucká 7/A
010 01 Žilina
Slovakia

