

**POLYPROPYLENE PP 1553L**

Product obtained by polymerization of propylene in presence of complex metalorganic catalysts.

Chemical name: Propylene homopolymer

It incorporates increased long-term thermal stability, thermal-oxidative degradation resistance when PP is produced, processed and PP-made articles are exploited. Recipe preventing from ambient discoloration.

Empirical formula:  $[-CH_2CH(CH_3)-]_n$

Technical requirements: **TU 2211-136-05766801-2006**

Application: needle-punched geotextiles, staple fibre.

QUALITY	VALUE	TEST METHOD
1. Flow-melt index (at 2.16 kg/230°C), g/10 min, in the range	4.5 – 6.5	ASTM D1238/L
2. Flexural modulus, MPa, min.	1300	ASTM D 790
3. Tensile strength at yield point, MPa, min.	32	ASTM D 638
4. Elongation at yield point, %, min.	10	ASTM D 638
5. Gel content, pcs./m <sup>2</sup> , not more, sizing: ≥ 2.5 mm (1.5 – 2.5) mm (0.7 – 1.5) mm ≥ 0.2 mm	0 3 50 500	p.4.8 TU 2211-136-05766801-2006

**Additional reference ratings**

QUALITY	VALUE
1. Density, kg/m <sup>3</sup>	900
2. Packed density of pellets, kg/m <sup>3</sup>	480-520
3. Mass fraction of ash, %	0.025-0.050
4. Thermal-oxidative aging resistance at 150 °C, h	360
5. Vicat softening point in liquid medium under force 10 H, °C	150-154
6. Thermal creep temperature at load 0.46 H/mm <sup>2</sup> , °C	90-96
7. Rockwell hardness, R	82-95

**Supply form:** Pellets

**Packaging:** Product is packed into polyethylene or polypropylene bags (one bag net weight 25.00 ± 0.25 kg) and bundled on flat pallets with shrink film. Gross weight of a bundle is max 2 t.  
PP may be packed into soft containers (big bags) sized for 400-1000 kg.  
Upon agreement with a customer, PP pellets may be loaded unpacked straight into wagons for pelleted polymer materials and polymer truck-carriers, as well as may be delivered in bags by railcars.

**Transportation:** By all modes of transport.

**Storage:** Polypropylene shall be stored in enclosed dry space preventing from direct sun rays, on shelves or pallets at least 5 cm from the floor, and at least 1 m from heaters, at temperature max 30°C and relative humidity max 80%. Prior to processing, bags with polymer shall be kept for at least 12 hrs in production area.

Information contained herein is provided to the best of our knowledge and is considered true on the revision date. This specification does not release a customer from obligation to check the product as to suitability thereof for the intended application. A producer shall not be liable for any loss and damage that might occur due to use of this information.