

**POLYPROPYLENE PP 4445S**

Product obtained by copolymerization of propylene and ethylene in presence of complex metalorganic catalysts.

Incorporates long-term thermal stability, thermal-oxidative degradation resistance when PP is produced, processed and PP-made articles are exploited, effective nucleation, improved optical properties, improved antistatic properties for articles production and improved melt rheology.

Application: jet molding of high quality food packaging.

Chemical name: Propylene and ethylene copolymer

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

Technical requirements: TU 2211-136-05766801-2006

QUALITY	Value	Test method
1. Melt flow index (at 2.16 kg/230°C), g/10 min, in the range	35 – 45	ASTM D1238/L
2. Flexural modulus, MPa, minimum	950	ASTM D 790
3. Izod impact strength (at 23°C), J/m, minimum	45	ASTM D 256
4. Tensile yield strength, MPa, minimum	As per actual results	ASTM D 638
5. Elongation at yield point, %, minimum	As per actual results	ASTM D 638

**Additional reference qualities**

Quality	Value
1. Density, kg/m <sup>3</sup>	900
2. Bulk density of pellets, kg/m <sup>3</sup>	480-600
3. Mass ash content, %	0.025-0.050
4. Thermal-oxidative ageing resistance at 150 °C, h	360
5. Vicat softening point in liquid medium subject to a force of 10 N, °C	130-138
6. Temperature of heat distortion at the load of 0.46 N/mm <sup>2</sup> , °C	70-80
7. Rockwell hardness, R	75-82

Supply form: Pellets

Packaging: The 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 2 t max.  
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 30 °C max and relative humidity 80 % max.  
Prior to processing bags with polymer shall be kept for at least 12 hours in production area.

Information contained herein is provided to the best of our knowledge and 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 or damage that might occur due to use of this information.