

HIGH IMPACT POLYSTYRENE GRADE 825

Grade 825 is a high impact polystyrene for injection molding. The polymer's ability to be molded on fast cycles with minimal stresses results in outstanding impact retention. It is used in such applications as appliance housings, toys, and structural foam that require high gloss.

CAS Number: 9003-55-8

Design specification: TU 2214-126-05766801-2003

PROPERTY	VALUE	TEST METHOD
Melt flow, g/10 min., at 200°C for 5 kg load	7.5 ± 1.5	ASTM D 1238/A
Vicat softening point, °C, min.	84.0	ASTM D 1525/A
Tensile strength, MPa, min.	15.0	ASTM D 638M
Tensile modulus, MPa, min.	1500	ASTM D 638M
Tensile elongation, MPa, min.	40.0	ASTM D 638M
Gardner impact strength, J, min.	12.0	ASTM D 3029/G
Notched Izod impact strength, J/m, min.	96.0	ASTM D 256/A
Flexural strength, MPa, min.	37.0	ASTM D 790/A
Flexural modulus, MPa, min.	2000	ASTM D 790/A
Gloss, 60°, min.	80.0	ASTM D 523
Residual styrene mass content, %, max.	0.05	GOST 15820 or Fina LAB 1/34-1/35

Supply form: Granules.

Packaging: Product is shipped in paper or polyethylene bags, polypropylene big bags.

Transportation: Product is transported in covered transport. Product in big bags can be transported in open rolling-stock.

Storage: Storage in sheltered warehouse on shelves or pallets higher than floor level at least by 5 cm and away from heating devices at least by 1 m and direct sunrays.

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