



DOW 5E89 Polypropylene Resin

Homopolymer

- Consistent processability
- Good color stability
- High strength properties
- Low water “carry-over”
- High speed processing
- Complies with U.S. FDA 21 CFR 177.1520 (c) 1.1a.
Consult the regulations for complete details.

DOW 5E89 Polypropylene Resin is intended for use in stretched tape (raffia) processes, from which the raffia is used to produce woven fabrics for carpet backing, sacking, industrial and geotextile applications.

Physical Properties	Test Method	Values ⁽¹⁾ English (SI)
Resin Properties		
Melt Flow Rate (230°C), g/10 min	ASTM D 1238	4.0
Density, g/cc	ASTM D 792	0.90
Molded Part Properties⁽²⁾		
Tensile Strength at Yield, psi (MPa)	ASTM D 638	4930 (34)
Tensile Elongation at Yield, %	ASTM D 638	8
Flexural Modulus, 1% Secant, psi (MPa)	ASTM D 790A	200,000 (1380)
Notched Izod Impact @ 23°C (74°F), ft·lbf/in. (J/m)	ASTM D 256A	0.6 (32)
Deflection Temperature Under Load @ 66 psi (0.45 MPa), unannealed, °F (°C)	ASTM D 648	220 (104)
Rockwell Hardness, R Scale	ASTM D 785	R102

- (1) Typical values, not to be construed as specifications. Users should confirm results by their own tests.
- (2) Testing performed on ASTM D 638 Type I specimen, molded and tested in accordance with ASTM D 4101. Properties will vary with changes in molding conditions and aging time.

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