

# POLYPROPYLENE 4820WZ

## Impact Copolymer

TOTAL Petrochemicals Polypropylene 4820WZ is a nucleated impact copolymer with a Melt Flow of 35 g/10min.

4820WZ is characterized by improved stiffness, creep resistance, high impact resistance, excellent antistatic properties and has been formulated to allow faster cycling through early demolding.

4820WZ has been developed specifically for the injection molding of garden furniture, housewares, thin-walled articles, and compounding.

### Resin Properties

### Typical Value

### Test Method

Melt Flow, g/10 min.	35	ASTM D-1238
Density, g/cm <sup>3</sup>	0.905	ASTM D-1505
Melting Range, °C	160 - 165	TOTAL Polypropylene Method

### Mechanical Properties

Tensile Strength at Yield, psi (M Pa)	4,000 (27)	ASTM D-638
Elongation at Yield, %	6	ASTM D-638
Flexural Modulus, psi (M Pa)	200,000 (1,380)	ASTM D-790
Izod Impact (Notched)		
@ 23°C, ft-lb/in (J/m)	1.5 (80)	ASTM D-256
@ -20°C, ft-lb/in (J/m)	0.7 (37)	ASTM D-256
Charpy Impact Strength		
@ 23°C, kJ/m <sup>2</sup>	9.5	DIN 53453
@ -20°C, kJ/m <sup>2</sup>	4.5	DIN 53453

### Thermal Properties

Vicat Softening Point, °C	150	ASTM D-1525
Heat Deflection Temperature °C	100	ASTM D-648

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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TOTAL products must be guided by the users own methods for selection of proper formulation. TOTAL PETROCHEMICALS USA, INC. disclaims any responsibility for misuse or miss application of its products. TOTAL MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL'S liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.

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