

## Polypropylene

Impact Copolymers							
Product Number		Mechanical Properties					Thermal Properties
	Melt Flow Rate ASTM D1238	Tensile Strength at Yield ASTM D 638	Elongation at Yield ASTM D 638	Flexural Modulus ASTM D 790	Izod Impact Notched @ 23 °C ASTM D 256	Izod Impact Notched @ -20 °C ASTM D 256	Heat Deflection Temperature ASTM D 648
Units	g/10 min	psi M Pa	%	psi M Pa	ft-lb/in J/m	ft-lb/in J/m	°F °C
TOTAL 4170	0.75	3,700 26	7	165,000 1,140	No Break	NA	187 86
TOTAL 4280W	1.3	3,600 25	7	190,000 1,300	No Break	1.4 70	200 93
TOTAL 4524WZ	7	3,800 26	7	170,000 1,180	3.5 188	1.4 70	194 90
TOTAL 5720WZ	20	3,400 23	7	190,000 1,300	3.6 180	1.1 55	194 90
TOTAL 5724	20	3,100 21	7	130,000 910	No Break	1.5 75	187 86
TOTAL 4820WZ	35	4,000 27	6	200,000 1,380	1.5 80	0.7 37	212 100
TOTAL 4920WZ	105	3,700 25	6	190,000 1,300	1.0 53	0.5 26	230 110

W = nucleated, Z = antistat, M = clarified, C = slip, R = radiation stability

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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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