

Polypropylene

Blow Molding Typical Properties Guide

POLYOLEFINS

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
HOMOPOLYMERS							
TOTAL 3281	1.3	4,900 34	8	200,000 1,380	0.8 42	NA	220 104
TOTAL 3230	1.6	4,800 33	8	170,000 1,170	0.7 37	NA	250 121
TOTAL 3230XZ	1.8	4,800 33	8	170,000 1,170	0.7 37.4	NA	250 121
RANDOM COPOLYMERS							
TOTAL 6289MZ	1.5	4,400 30	9	140,000 969	1.4 70	NA	205 96
TOTAL 6232	2	3,800 26	14	150,000 1,000	1.2 64	NA	195 91
TOTAL 7525MZ	10	4,200 29	10	150,000 1,035	1.0 50	NA	220 104
TOTAL 6823MZ	32	4,500 31	10	150,000 1,035	1.0 53	NA	220 104
IMPACT COPOLYMERS							
TOTAL 4180	0.7	3,900 27	11	175,000 1,200	NB NB	1.5 80	194 90
TOTAL 4280W	1.3	3,600 25	7	190,000 1,300	NB NB	1.4 70	200 93
METALLOCENE							
TOTAL M3282MZ	2.3	4900 33.8	NA	216,000 1490	1.3 65	NA	207 97

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

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Corporate Office USA
P.O. Box 674411
Houston, TX 77267-4411
800.344.3462
www.totalpetrochemicalsusa.com

Technical Center
P.O. Box 1200
Deer Park, TX 77536
281.884.7500

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