



PROMETHEUS
TECHNOLOGY

Digital ABS™ (Green: RGD5160-DM, RGD5161-DM and Ivory: RGD5130-DM, RGD5131-DM)

DIGITAL MATERIALS SIMULATING ENGINEERING PLASTICS

	ASTM	UNITS	METRIC	UNITS	IMPERIAL
Tensile Strength	D-638-03	MPa	55-60	psi	8000-8700
Elongation at Break	D-638-05	%	25-40	%	25-40
Modulus of Elasticity	D-638-04	MPa	2600-3000	psi	375,000-435,000
Flexural Strength	D-790-03	MPa	65-75	psi	9,500-11,000
Flexural Modulus	D-790-04	MPa	1700-2200	psi	245,000-320,000
HDT, °C @ 0.45MPa	D-648-06	°C	58-68	°F	136-154
HDT, °C @ 0.45MPa after thermal post treatment procedure A	D-648-06	°C	82-90	°F	180-194
HDT, °C @ 0.45MPa after thermal post treatment procedure B	D-648-06	°C	92-95	°F	198-203
HDT, °C @ 1.82MPa	D-648-07	°C	51-55	°F	124-131
Izod Notched Impact	D-256-06	J/m	65-80	ft lb/inch	1.22-1.50
T _g	DMA, E ₂	°C	47-53	°F	117-127
Shore Hardness (D)	Scale D	Scale D	85-87	Scale D	85-87
Rockwell Hardness	Scale M	Scale M	67-69	Scale M	67-69
Polymerized Density	ASTM D792	g/cm ³	1.17-1.18		