



## TYPICAL ANALYTICAL PROPERTIES

ANALYTICAL TEST	ASTM Std.	cct-6400 Germany	rC6400 USA	rC7400 USA	TOLERANCES
Tint Strength	D3265	<60 %330	<60 %330	75.0 %330	+/- 30g/kg
Pour Density	D1513	27 lb./ft3	27 lb./ft3	27 lb./ft3	+/- 10 lb./ft3
Average Particle Size	D1511	40.nm	40.nm	40.nm	+/- 10nm
% Sulfur	D1619	2.0w/w%	2.0w/w%	2.0w/w%	+/- 2w/w%
Toluene Discoloration	D1618	100.00	100.0	50.0	+/- 10.0
Ash Content	D1506	20.0%	14.0%	12.0%	Minimum 0% Maximum 18%
5' Fines	D1508	2.0%	2.0%	2.0%	+/- 2%
#325 Sieve Residue Percent Magnetics	D1514	30ppm 0%	30ppm 0%	30ppm 0%	Maximum 60 ppm No tolerance
Individual Pellet Hardness	D5280	High – 65 Low - 20	High – 65 Low - 20	High – 65 Low - 20	High – Max. 75 Avg. – Max. 45
Percent Moisture Content	D1509	0.60%	0.60%	0.60%	Max. 1.0%

## TYPICAL RUBBER PROPERTIES

RUBBER TEST (ASTM D3192 Formulation)	ASTM Std.	cct-6400 AG	rC6400 USA	rC7400 USA	TOLERANCES
MDR ts2 (mm:ss) t90 (mm:ss) Min (dNm) Max (dNm)	D5289	1.49 7.86 1.49 8.55	1.49 7.86 1.49 8.55	1.77 7.93 1.13 8.83	N/A
Hardness (Shore A)	D2240	55	55	55	N/A
Tensile Strength M100% (MPa) M300% (MPa) TS (MPa) EB (%)	D412	1.81 8.39 16.5 471	1.81 8.39 16.5 471	1.55 6.53 21.3 571	N/A
Tear Strength (N/mm)	D624	23.3	23.3	71.0	N/A
Dispersion (Microscope)	/	Very Good	Very Good	Excellent	N/A
DMA Delta E' (MPa)	/	1.74	1.74	2.54	N/A