

EnduraSafe™ Composite 101

Properties	Test Method	Recycled PP/Rubber Compound	Prime PP/Rubber Compound
Physical		Tested Value	Tested Value
Specific Gravity, g/cc (kg/m ³)	ASTM D 792	1.00	1.00
Water absorption (24 hours immersion)	ASTM D 570	-	-
Mold Shrinkage %	ASTM D 955	-	-
Mechanical			
Tensile Modulus, psi	ASTM D 638	-	-
Ultimate Tensile Strength, psi	ASTM D 638	1,964	2,013
Tensile Break, psi	ASTM D 638	1,864	1,912
Elongation @ Break, %	ASTM D 638	18	14.08 ¹
Flexural Modulus, psi	ASTM D 790	87,000	107,000
Flexural Strength, psi	ASTM D 790	2,436	3,052
Notched, Izod Impact, ft-lb/in	ASTM D 256		
@ 73°F (23°C)		1.98	1.43
@ (-30°C)		-	0.91 ²
Thermal			
Deflection Temperature Under Load, °F	ASTM D 648		
Unannealed @ 66 psi		-	151°F
Unannealed @ 264 psi		-	101°F
Rheological			
Melt Flow Rate (190°C / 2.16 kg) g/10 min.	ASTM D 789	-	-

¹ Test speed was 2 inches per minute w/ extensionometer

² Tested at -30 °C

Typically, data is generated from injection molded specimens made from materials representative of the compound to be supplied. Tests are conducted at 73°F and 50% relative humidity unless stated otherwise.

NOTE: These tests were performed using standardized conditions and methods. The data provided for these properties are typical values. However, many mechanical properties of thermoplastic materials can be influenced by process conditions, the environment, and the rate of the application of stress during testing. Therefore, these results should NOT be used alone as the basis of engineering design. Please contact a Technical Representative from Midland Compounding & Consulting to discuss this information.

Manufacturing in Partnership with Cobalt Holdings, LLC

