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Standard Terminology Relating to Recovered Carbon Black (rCB)¹

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1. Scope

1.1 This terminology covers a compilation of definitions of technical terms used in the recovered carbon black industry. Terms that are generally understood or adequately defined in other readily available sources are not included.

1.2 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

D3053 Terminology Relating to Carbon Black

¹ This terminology is under the jurisdiction of ASTM Committee D36 on Recovered Carbon Black (rCB) and is the direct responsibility of Subcommittee D36.30 on Nomenclature.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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3. Terminology

3.1 Definitions:

carbon black, n—this definition is under the jurisdiction of Committee D24 and maintained in Terminology D3053.

char, n—solid carbonaceous residue formed during carbonization of organic compounds.

raw rCB, n—solid material resulting from thermal decomposition of rubber goods which contain carbon black; exhibiting poor dispersion so requiring milling to become rCB.

recovered carbon black (rCB), n—solid product recovered via thermal decomposition from rubber goods which contain carbon black, which is free of wire and fabric, and when milled typically gives semi-reinforcing properties in rubber.

DISCUSSION—A type of filler derived from post-consumer rubber goods (feedstock) via a variety of thermal decomposition processes. This semi-reinforcing filler predominantly consisting of carbon, also containing inorganic compounding ingredients originating from the feedstock but is free of wire and fabric. This material, typically pelletized currently marketed under the name recovered carbon black (rCB), should not be confused with “Raw rCB” which exhibits poor dispersion and minimal reinforcing properties when used in rubber compounding.

recovered carbon black pellet, n—a relatively large agglomerate mass that has been densified in spheroidal form to facilitate handling and processing.