



January 25, 2016

This document provides the cell classification and respective material properties in accordance with ASTM D3350 for the high density polyethylene resin used for production of 3-24" ADS Single Wall Heavy Duty pipe meeting the requirements of ASTM F667.

Cell Classification per ASTM D3350: **323410C**

Cell Class Number	Property	ASTM Test Method	Unit	Value
<b>3</b>	Density	D1505	g/cm <sup>3</sup>	>0.940 – 0.947
<b>2</b>	Melt Index	D1238	g/10min	1.0 – 0.4
<b>3</b>	Flexural Modulus	D790	psi (MPa)	40,000 to <80,000 (276 to <552)
<b>4</b>	Tensile Strength	D638	psi (MPa)	3,000 to <3,500 (21 to <24)
<b>1</b>	Slow Crack Growth Resistance, ESCR	D1693	Test condition, 100% Igepal Test duration, hours Failure, max	B 48 50%
<b>0</b>	Hydrostatic Design Basis	D2837	psi (MPa)	Not pressure rated
<b>C</b>	Color and UV Stabilizer	D3350	--	Black; Minimum 2%, Maximum ≤4%