

**TECHNICAL DATA SHEET** **POLYCRUMB™ D0 3 XA****A Family of Polymers and Tire Derived Crumb Rubber as a Composite****KEY CHARACTERISTICS**

PolyCrumb is a compound material from tire derived crumb rubber and various polymers. PolyCrumb meets the requirements as a thermoplastic elastomer because of the molecular bond that is achieved without the introduction of bonding agents, accelerants or catalysts. PolyCrumb is recyclable and may be compounded from 100% recycled material. The tire derived crumb rubber within PolyCrumb is not simply a filler, but rather a molecular bonded material that can substitute for many polymer or TPE applications.

**GENERAL**

PolyCrumb is available in a wide range of flexibilities, strengths, impact resistances and melt flow rates. PolyCrumb typically allows injection molding at lower temperatures than other polymers without sacrificing product characteristics. PolyCrumb accepts paints, coatings and epoxy finishes without pre-treatment.

**TECHNICAL PROPERTIES D0 3 XA**

<b>PHYSICAL</b>	<b>Test Method-ASTM</b>	<b>Units</b>	<b>Value</b>
Melt Flow Rate g/10 min (230°C/2.16Kg)	D1238	g/10 min	15
Density	D792	g/cc	1.03
<b>MECHANICAL</b>			
Tensile: Yield Stress	D638	psi	1885
Tensile: Yield Strain	D638	%	11
Tensile: Modulus	D638	kpsi	93
Tensile: Ultimate Strain	D638	%	15
Flex Modulus-Tangent	D790	kpsi	98
<b>IMPACT</b>			
Izod Notched Impact 23±1°C	D256	ft-Lb/in	1.3
Hardness, Shore D	D2240		59