

## TECHNICAL DATA SHEET

# POLYCRUMB™ D0 3 XB

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 XB

PHYSICAL	Test Method-ASTM	Units	Value
Melt Flow Rate (230°C/2.16Kg)	D1238	g/10 min	5.5
Density	D792	g/cc	1.03
MECHANICAL			
Tensile: Yield Stress	D638	psi	1958
Tensile: Yield Strain	D638	%	16
Tensile: Modulus	D638	kpsi	69
Tensile: Ultimate Strain	D638	%	30
Flex Modulus-Tangent	D790	kpsi	70
IMPACT			
Izod Notched Impact 23±1°C	D256	ft-Lb/in	2
Hardness, Shore D	D2240		54