

Material TEST RESULTS

Density ASTM D792 Specific Gravity – 1.3295 Density (lb/ft3) – 82.5124
Water Absorption ASTM D790 Sample dried for 24 hrs Weight Gain – 2.91%
Taber Abrasion Satorius MCI 1000 Cycles Weight Change - -0.0185

Izod
 70°F Impact Strength (ft*lb/in) – 1.19 Impact Strength (J/m) – 63.27
 -40°C Impact Strength (ft*lb/in) – 1.05 Impact Strength (J/m) – 55.95

Poissans Ratio ASTM D638 0.335234
Drop Tower ASTM D5420 0.25" Max Energy (ft*lbft.) – 89.47
Drop Tower ASTM D5420 0.50" Max Energy (ft*lbft.) – 317.71
Melt Flow 275C – 325_g weight Sample 1 – 0.92_g/10min Sample 2 – 1.77_g/10min

Coefficient of Thermal Expansion

4.76 x 10⁻⁵ in/in °F

Tensile Fatigue

Instron 1331 % Max Load – 40 1,000,000 cycles High Load - 130

TEST TYPE	ASTM Method	Material Thickness	Temperature	Displacement At Yield (Max Load)	Load at Yield (Max Load)	Stress at Yield (Max Load)	Stain at Yield (Max Load)	Modulus (AutYoung) (psi)
Rockwell Hardness	D785	0.25	70 °F					41.8
Compression –Punch Shear	D732-85	0.25	70 °F	0.054	3352.40	4181.36		
Compression	D695	0.25	70 °F	0.232	898.12	6941.56	0.1544	118536.9
Flex	D790	0.25	70 °F	0.506	24.5	4436.2	0.0487	244714.3
Flex	D790	0.25	130 °F	0.605	13.0	3865.3	0.0520	366853.0
Flex	D790	0.25	- 40 °F	0.212	53.2	9473.4	0.0205	651049.8
Flex	D790	0.375	70 °F	0.680	33.0	3966	0.0434	237628
Flex	D790	0.45	70 °F	0.684	98.4	3917	0.0291	258558
Tensile	D638 ext	0.25	70 °F	0.033	326.660	2490.31	0.0326	351363.9
Tensile	D638 ext	0.25	130 °F	0.097	219.380	1678.65	0.0966	162769.6
Tensile	D638 ext	0.375	70 °F	0.067	384.150	1932.53	0.0674	243539.0
Poissans Ratio	D638	0.25	70 °F	Elongation 0.011	260.053	2.0 ksi	0.011 ksi	314.151ksi

MATERIAL SAFETY DATA SHEET

<p>Wear self-contained breathing apparatus if exposed to combustion products.</p> <p>Handling (Physical Aspects)</p> <p>Keep in dry area.</p> <p>Physical Data:</p> <p>% Volatiles : None Solubility in Water : Insoluble</p> <p>Form : sheets Color : natural or colored Specific Gravity : 0.68 to 1.5</p> <p>Chemical Stability:</p> <p>Stable at normal temperatures and storage conditions.</p> <p>Conditions to avoid:</p> <p>Temperatures above 480 °F (249 °C)</p> <p>Decomposition:</p> <p>Hazardous decomposition products: Carbon monoxide and hydrocarbon oxidation products including organic acids, aldehydes and alcohol.</p> <p>Other Hazards:</p> <p>Material to avoid:: None known</p> <p>Ecotoxicological Information</p> <p>Aquatic Toxicity: Toxicity is expected to be low based on insolubility in water.</p> <p>Waste Disposal:</p> <p>Treatment, storage, transportation, and disposal must be in accordance with applicable Federal State/Provincial, and local regulations.</p> <p>Shipping Information:</p> <p>DOT Proper shipping name = NA Hazard Class = Not Regulated</p>	<p>U.S. Federal Regulations</p> <p>TSCA Inventory Status : Listed Title III Hazard Classifications Sections 311, 312</p> <p>Acute = No Chronic = No Fire = No Reactivity = No Pressure = No</p> <p>State Regulations (U.S.)</p> <p>State-Right-To-Know-Laws</p> <p>No substances on the state hazardous substances list, for the states indicated below, are used in the manufacturing of products on this material list.</p> <p>Substances on the Pennsylvania hazardous substances list present at a concentration of 1% or more (0.01% for special hazardous substances) = None Known</p> <p>Warning: Substances known to the state of California to cause cancer, birth defects or other reproductive harm: None Known</p> <p>Substances on the New Jersey Workplace Hazardous substance list present at a concentration of 15 or more (0.01% for substances identified as carcinogens, mutagens or teratogens): None Known</p> <p>Other Information</p> <p>This data in this Material Safety Data Sheet relates only to the specific material designation herein and does not relate to use in combination with any other material or in any process.</p> <p>Responsibility for MSDS: (MSDS Coordinator)</p> <p>Rebound Sales Group 2001 County Road C2 West Roseville MN 55113 651/762-7436 Voice 651/653-4871 Fax</p>
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