

MATERIAL SAFETY DATA SHEET

Product Designation: **Recycled HDPE (High Density Polyethylene)**

Section 1

Manufacturer's Name/Address: Reprocessed Plastics, Inc. Db. Recycled Plastics PO Box 125 8301 County Rd. 82 NW Garfield, MN 56332	Phone Fax Email Website	320-834-2293 320-834-2290 office@gipo-rpi.com www.gipo-rpi.com
---	--	---

Section 2-Hazardous Ingredients/Identity

This product has not been evaluated as a whole. However, some fumes may be released upon heating and the user must take the necessary precautions (ventilation, personal protective equipment, etc.) to protect employees from exposure (see Section 7-Special Precautions.)

<u>Hazardous Component(s)</u> <u>Chemical/Common Names</u>	<u>OSHA</u> <u>PEL</u>	<u>ACGIH</u> <u>PEL</u>	<u>Other Exp.</u> <u>Limits</u>	<u>%</u>	<u>CAS</u> <u>Number</u>
Polyethylene Plastics	N/L	N/L	N/L	100	9002-88-4

This material is NOT HAZARDOUS by OSHA communication definition.

Section 3-Physical and Chemical Characteristics

<u>TEST</u>	<u>ASTM NUMBER</u>	<u>TYPICAL VALUE</u>
Tensile Strength	D 638	1,800 – 3,000 psi
Modulus of Elasticity	D 638	50,000 – 150,000 psi
Elongation	D 638	5 – 50 %
Flexural Modulus	D 790	100,000 – 200,000 psi
Compression	D 1037	3,000 – 5,000 psi
Moisture Content	D 570	0 %
Water Absorption	D 570	0 %
Density	D 1895	0.92 – 1.5 g/cc
Hardness – Shore D	D 2240	50 – 108
Shear Strength	D 732	1,800 – 2,500 psi
Ultimate Shear Strength	D 143	500 – 600 psi

This Material Safety Data Sheet and the information it contains are offered to you in good faith as accurate. We believe the information it contains to be correct but cannot guarantee its accuracy or completeness. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

Section 3-Physical and Chemical Characteristics-Continued

Abrasion Resistance	D 2394	0.005” – 0.015” wear/1000 revs	
Self-Ignition Temperature	D 1929	700 – 850	F
Flash Ignition Temperature	D 1929	650 – 750	F
Flame Spread	E 84	70 – 90	
Coefficient of Linear Thermal Expansion	D 696	1.0 – 2.0 x 10 ⁻⁵	in/in/ F
Static Coefficient of Friction	D 2047	0.1 – 0.5	
Notched izod impact	D 746	0.7 – No Break	lbs. /in
Direct Nail Withdrawal	D 1037	40 – 60	lbs.
Nail Head Pull Through	D 1037	400 – 500	lbs.
Thermal Resistance	C 177	1.386	F ft. h/BTU
Thermal Conductance	C 177	0.72	BTU-in/ft. F
Thermal Conductivity	C 177	0.378	in/ft. h F
Thermal Resistivity	C 177	2.78	ft. F h/BTU
Termite Resistance	D 1761	9.6 – 9.8	rating
Modulus of Rupture	D 4761	1,400 – 1,600	psi
Fungus Resistance	D 1413	No Decay	
Leachate (f)	TCLP-EPA 1311	Pass	
Fungal Resistance	US Military Standard 810-D Method 508.3	No signs of visible fungal growth	
Ultra Violet Deterioration Rate		Insignificant	

* based on 1/2” thick material

****Note - This is for virgin HDPE. Recycled material will be as good as 90% of the above. There are absolutely no guarantees for any of our recycled material.**

Appearance and Odor Color varies; faint aromatic odor

Melting Point 220-280°F (108-138°C)

This Material Safety Data Sheet and the information it contains are offered to you in good faith as accurate. We believe the information it contains to be correct but cannot guarantee its accuracy or completeness. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

Section 4-Fire and Explosion Data

Flash Point	650-750°F ASTM E136	Flammable Limits in Air % by volume	Lower NA	Upper NA
Auto-Ignition Temperature	700-850°F	Extinguisher Media	Dry chemical preferred, water fog, foam, CO2	

Special Fire

Fighting Procedures A fine spray of fog or water will reduce intensity of flame. Keep exposed product cool to prevent melting or dripping. Do not use a solid stream of water, this could spread fire. Self-contained breathing apparatus should be worn to prevent inhalation of smoke and decomposition products.

**Unusual Fire and
Explosion Hazards**

None Known

Section 5-Physical Hazards

Stability	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	Conditions to Avoid	NA
------------------	---	----------------------------	----

Incompatibility (Materials to avoid) None known

**Hazardous
Decomposition
Products** Oxides of carbon, water vapor, trace low molecular weight hydrocarbons

Hazardous Polymerization	May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid	NA
-------------------------------------	--	----------------------------	----

Section 6-Health Hazards

**Signs and Symptoms
of Exposure** Acute Overexposure- None Known Chronic Overexposure-None Known

**Medical Conditions Generally
Aggravated by Exposure** None Known

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	IARC Monographs	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	OSHA Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	-----------------------------------	--	--------------------	--	---

Emergency and First Aid Procedures:

1. Inhalation- Remove person to fresh air and consult physician if respiratory irritation occurs.
2. Eyes- Flush with water and consult physician.
3. Skin- Treat contact with molten product as for ordinary burn.
4. Ingestion-Consult physician.

This Material Safety Data Sheet and the information it contains are offered to you in good faith as accurate. We believe the information it contains to be correct but cannot guarantee its accuracy or completeness. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

Section 7-Special Precautions and spill/Leak Procedures

Precautions to be Taken in Handling and Storage	Do not store near flame or heat source
Other Precautions	Fumes may be released upon heating. Mechanical ventilation and/or approved respiratory protection program may be required.
Steps to be Taken in Case Material is Released or Spilled	Sweep, shovel or vacuum material into clean containers.
Waste Disposal Methods	Dispose of in accordance with all local, State and Federal regulations.

Section 8-Special Protection Information/Control Measures

Respiratory Protection (Specify Type)	Not ordinarily required
Ventilation	Local Exhaust <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Special <input type="checkbox"/> Other <input type="checkbox"/> (General)
Protective Gloves	Not ordinarily required
Eye Protection	Safety Glasses
Protective Clothing or Equipment	Protective clothing should be worn to prevent burns from molten product if exposure is likely.
Work/Hygienic Practices	No special practices ordinarily required

This Material Safety Data Sheet and the information it contains are offered to you in good faith as accurate. We believe the information it contains to be correct but cannot guarantee its accuracy or completeness. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.