



## DuraPET 1220

### Product Description

DuraPET is a modified PET material that demonstrates extreme impact and wear characteristics. It is a highly durable material that can withstand outdoor environmental conditions. It exhibits ductile failure as low as - 40°C and can withstand higher temperatures above 180°C.

### General

**Material Status:** Commercial: Active  
**Availability:** Globally  
**Features:** Low Crystallinity/Extreme High Toughness  
**Uses:** Multiple  
**Processing Method:** Injection Molding, Extrusion, Thermoforming, Blown Film

### ASTM & ISO Properties

<u>Physical</u>	<u>Nominal Value</u>	<u>Unit</u>	<u>Test Method</u>
Density	1.25	g/cc	ISO 1183
Molding Shrinkage	0.60	%	ISO 294-4
<u>Mechanical</u>	<u>Nominal Value</u>	<u>Unit</u>	<u>Test Method</u>
Tensile Modulus	261,284	psi	ASTM D638
Tensile Strength	6,022	psi	ASTM D638
Flexural Modulus	287,150	psi	ASTM D790
Elongation @ Break	325	%	ASTM D638
<u>Impact</u>	<u>Nominal Value</u>	<u>Unit</u>	<u>Test Method</u>
Gardner Impact (23°C)	>320	in-lb	ASTM D5420
Gardner Impact (- 40°C)	>320	in-lb	ASTM D5420
<u>Rheological</u>	<u>Nominal Value</u>	<u>Unit</u>	<u>Test Method</u>
Melt Flow Rate (285°C, 2.16 Kg)	5.0	g/10 min	ASTM D1238

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