



DuraPET 1220 PCR ST

Product Description

DuraPET is a modified PET material that demonstrates extreme high 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	250,040	psi	ASTM D638
Tensile Strength	6,022	psi	ASTM D638
Flexural Modulus	283,940	psi	ASTM D790
Elongation @ Break	350	%	ASTM D638
<u>Impact</u>	<u>Nominal Value</u>	<u>Unit</u>	<u>Test Method</u>
Gardner Impact (23°C)	>500	in-lb	ASTM D5420
Gardner Impact (- 40°C)	>290	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)	6.3	g/10 min	ASTM D1238

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon conditions that purchasers shall make their own test to determine suitability of such products for their particular purposes and uses, and purchasers assume all risks and liability for the results of use of the products, including use in accordance with the seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the product described.