

DuraPET 0624

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	1.29	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	325,720	psi	ASTM D638
Tensile Strength	7,640	psi	ASTM D638
Flexural Modulus	336,000	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)	16.0	g/10 min	ASTM D1238

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