



DuraPET ULTRA™ 1080 PCR ST

Product Description

DuraPET ULTRA™1080 PCR ST is a modified PET material that demonstrates extreme high impact, extremely low notch sensitivity, wear characteristics. and excellent chemical resistance. It is a highly durable material that can withstand outdoor environmental conditions It is a highly durable material that can withstand outdoor environmental conditions. It exhibits ductile failure as low as - 40°C.

General

Material Status: PRELIMINARY

Availability: Globally

Features: Low Crystallinity/Extreme High Toughness

Uses: Multiple

Processing Method: Injection Molding, Extrusion, Thermoforming, Blown Film

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cc	ISO 1183
Molding Shrinkage	0.60	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	330,000	psi	ASTM D638
Tensile Strength	7200	psi	ASTM D638
Flexural Modulus	330,000	psi	ASTM D790
Elongation @ Break	300	%	ASTM D638
HDT 1.82 MPa	65	°C	ASTM D648
Impact	Nominal Value	Unit	Test Method
Gardner Impact (23°C)	>500	in-lb	ASTM D5420
Gardner Impact (- 20°C)	>290	in-lb	ASTM D5420
Notched Izod (23°C)	15	Ft-lb/in	ASTM D256
Rheological	Nominal Value	Unit	Test Method
Melt Flow Rate (285°C, 2.16 Kg)	12	g/10 min	ASTM D1238

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