



DuraPET ULTRA™ 1080FR

Product Description

DuraPET ULTRA™ 1080FR is a flame-retardant 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 exhibits ductile failure as low as - 20°C and can withstand higher temperatures up to 180°C.

General

Material Status: PRELIMINARY

Availability: Globally

UL Yellow Card: TBD

Features: Low Crystallinity/Extreme High Toughness

Uses: Housings, profile, sheet applications in medical equipment, building, construction, and transportation

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

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cc	ISO 1183
Molding Shrinkage	0.60	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	314,200	psi	ASTM D638
Tensile Strength	7,180	psi	ASTM D638
Flexural Modulus	357,800	psi	ASTM D790
Elongation @ Break	140	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Gardner Impact (23°C)	>600	in-lb	ASTM D5420
Gardner Impact (- 20°C)	>585	in-lb	ASTM D5420
Notched Izod (23°C)	15	Ft-lb/in	ASTM D256

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Rheological	Nominal Value	Unit	Test Method
Melt Flow Rate (285°C, 2.16 Kg)	10	g/10 min	ASTM D1238
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.8 mm	V0		
1.5 mm	V0		
3.0 mm	V0		

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