

DuraPET ULTRA™ 1080FR NLP-OC

Product Description

DuraPET ULTRA™ 1080 FR 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.

General

Material Status:	<u>PRELIMINARY</u>
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	120	%	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

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.

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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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