



## DuraPET™ 0624FR NLP-OC

### Product Description

DuraPET™ 0624 FR is a flame retardant modified PET material that demonstrates extreme high impact, 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

<b>Material Status:</b>	<b><u>PRELIMINARY</u></b>
<b>Availability:</b>	Globally
<b>UL Yellow Card:</b>	In process
<b>Features:</b>	Low Crystallinity/Extreme High Toughness
<b>Uses:</b>	Housings, profile, sheet applications, medical equipment, building, construction, and transportation
<b>Processing Method:</b>	Injection Molding, Extrusion

### **ASTM & ISO Properties**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density	1.27	g/cc	ISO 1183
Molding Shrinkage	0.60	%	ISO 294-4
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	310,000	psi	ASTM D638
Tensile Strength	7,300	psi	ASTM D638
Flexural Modulus	320,000	psi	ASTM D790
Elongation @ Break	120	%	ASTM D638
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Gardner Impact (23°C)	>500	in-lb	ASTM D5420
Gardner Impact (- 20°C)	>290	in-lb	ASTM D5420

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

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