

DuraMax™ DMX 8070NC

Thermoplastic Elastomer

Advanced Polymer Alloys

Message:

DuraMax™DMX 8070NC is a thermoplastic elastomer (TPE) material. This product is available in North America, Europe or Asia Pacific.

General Information			
Appearance	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792, ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	69		ASTM D2240, ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Set	9	%	ASTM D412
Tensile Stress (100% Strain)	3.86	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	14.5	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	440	%	ASTM D412, ISO 37
Tear Strength ¹ (24°C)	38.5	kN/m	ASTM D624
Compression Set			ASTM D395B, ISO 815
24°C, 22 hr	15	%	ASTM D395B, ISO 815
70°C, 22 hr	56	%	ASTM D395B, ISO 815
100°C, 22 hr	65	%	ASTM D395B, ISO 815
Clash-Berg Modulus (-27°C)	68.9	MPa	ASTM D1043
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			
125°C, 168 hr	6.0	%	ASTM D573, ISO 188
100% strain, 125°C, 168 hr	33	%	ASTM D573
100% strain 125°C, 168 hr	33	%	ISO 188
Change in Ultimate Elongation in Air (125°C, 168 hr)			
0.0		%	ASTM D573, ISO 188
Change in Volume			
24°C, 168 hr, in reference fuel B	-9.0	%	ASTM D471
100°C, 168 hr, ASTM Standard Oil (No.1)	-33	%	ASTM D471
100°C, 168 hr, IRM 903 Standard Oil (No.3)	-24	%	ASTM D471
24°C, 168 hr, in reference fuel B	-9.0	%	ISO 1817
100°C, 168 hr, in ASTM #1 oil	-33	%	ISO 1817
100°C, 168 hr, in IRM 903 Oil #3	-24	%	ISO 1817
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (149°C, 374 sec ⁻¹)	300	Pa · s	ASTM D3835

Additional Information

The value listed as Density -Specific Gravity, ASTM D792, was tested in accordance with ASTM D471. The value listed as Density, ISO 1183, was tested in accordance with ISO 2781.

Injection	Nominal Value	Unit
Processing (Melt) Temp	177	°C

NOTE

1. C mould

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

