

Adiprene® Duracast® C600 D

Polyurethane (Polycaprolactone, MDI)

Chemtura

Message:

ADIPRENE DURACAST C600 D is an MDI-terminated polycaprolactone prepolymer having low free MDI content. A high performance 60D elastomer with excellent physical properties is obtained when this prepolymer is chain extended with DURACURE™ C3 or C3-LF. Other advantages are improved processing characteristics and easier management of health & safety during handling.

General Information			
Features	Good Tear Strength		
	Heat Cure		
	Low Temperature Flexibility		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.18	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ² (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss - Relative vol loss			
-- ³	100	mm ³	
-- ⁴	71.0	mm ³	
Rebound Resilience - Drop Ball			
-- ⁵	47	%	
-- ⁶	47	%	
Abrasion Index			
DIN ⁷	203		
DIN ⁸	144		
NBS ⁹	1600	%	
NBS ¹⁰	1100	%	
Films	Nominal Value	Unit	Test Method
Trouser Tear Resistance			ASTM D1938
-- ¹¹	42.0	N/mm	
-- ¹²	40.3	N/mm	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain ¹³	17.9	MPa	
100% Strain ¹⁴	17.6	MPa	
300% Strain ¹⁵	31.4	MPa	
300% Strain ¹⁶	30.6	MPa	
Tensile Strength			ASTM D412
-- ¹⁷	37.9	MPa	

-- 18	37.7	MPa	
Tensile Elongation			ASTM D412
Break 19	330	%	
Break 20	300	%	
Tear Strength			
--	99.8	kN/m	ASTM D624
--	98.1	kN/m	ASTM D624
Split 21	22	kN/m	ASTM D470
Split 22	25	kN/m	ASTM D470
Compression Set			ASTM D395A
70°C, 22 hr 23	3.0	%	
70°C, 22 hr 24	5.0	%	
100°C, 22 hr 25	5.0	%	
100°C, 22 hr 26	8.0	%	
Bayshore Resilience			ASTM D2632
-- 27	45	%	
-- 28	45	%	
Thermoset	Nominal Value	Unit	
Pot Life (70°C)	1400	min	
Demold Time			
120°C	20	min	
140°C	10	min	
Post Cure Time			
120°C 29	16 to 24	hr	
140°C 30	16 to 24	hr	
NOTE			
1.	Post cure 140°C (24 hrs.)		
2.	Post cure 140°C (24 hrs.)		
3.	Post cure 120°C (24 hrs.)		
4.	Post cure 140°C (24 hrs.)		
5.	Post cure 120°C (24 hrs.)		
6.	Post cure 140°C (24 hrs.)		
7.	Post cure 140°C (24 hrs.)		
8.	Post cure 120°C (24 hrs.)		
9.	Post cure 140°C (24 hrs.)		
10.	Post cure 120°C (24 hrs.)		
11.	Post cure 140°C (24 hrs.)		
12.	Post cure 120°C (24 hrs.)		
13.	Post cure 140°C (24 hrs.)		
14.	Post cure 120°C (24 hrs.)		
15.	Post cure 140°C (24 hrs.)		
16.	Post cure 120°C (24 hrs.)		

17.	Post cure 140°C (24 hrs.)
18.	Post cure 120°C (24 hrs.)
19.	Post cure 140°C (24 hrs.)
20.	Post cure 120°C (24 hrs.)
21.	Post cure 120°C (24 hrs.)
22.	Post cure 140°C (24 hrs.)
23.	Post cure 140°C (24 hrs.)
24.	Post cure 120°C (24 hrs.)
25.	Post cure 140°C (24 hrs.)
26.	Post cure 120°C (24 hrs.)
27.	Post cure 140°C (24 hrs.)
28.	Post cure 120°C (24 hrs.)
29.	Standard
30.	High Performance

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT