

# Desmopan® DP 3491A

Thermoplastic Polyurethane Elastomer (Polyester)

Covestro - PUR

## Message:

Extrusion- and injection molding grade; suitable for extrusion blow molding; high mechanical strength; high melt stability; Application; Blow molding; Profiles; Injection molded engineering parts

General Information			
UL YellowCard	E465093-101727504		
Features	High Melt Stability High Strength		
Uses	Blow Molding Applications Engineering Parts Profiles		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion Extrusion Blow Molding Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1200	kg/m <sup>3</sup>	ISO 1183 <sup>1</sup>
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868 <sup>2</sup>
Shore A, 3 sec	92		
Shore D, 15 sec	40		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress <sup>3</sup>			DIN 53504
Break, 23°C	54.1	MPa	
10% Strain, 23°C	3.90	MPa	
50% Strain, 23°C	7.40	MPa	
100% Strain, 23°C	8.90	MPa	
300% Strain, 23°C	25.8	MPa	
Tensile Strain <sup>4</sup> (Break, 23°C)	500	%	DIN 53504
Abrasion Resistance (23°C)	25.0	mm <sup>3</sup>	ISO 4649-A
Tensile Storage Modulus			ISO 6721-1,-4
-20°C	515	MPa	
20°C	94.0	MPa	
60°C	59.0	MPa	

Impact Resilience (23°C)	36	%	ISO 4662
<b>Elastomers</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tear Strength <sup>5</sup> (23°C)	100	kN/m	ISO 34-1
<b>Compression Set</b>			ISO 815
23°C, 72 hr	20	%	
70°C, 24 hr	50	%	
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature	< 80.0	°C	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	20.0 to 40.0	°C	
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature	< 80.0	°C	
Melt Temperature	180 to 210	°C	

**NOTE**

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|----|---|
| 1. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |
| 2. | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |
| 3. | 200 mm/min  |
| 4. | 200 mm/min  |
| 5. | 500 mm/min  |

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**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

