



Desmopan DP 3695AU

300 grade series, ester / Shore hardness D 45 - 49

Extrusion- and injection molding grade; transparent up to 6 mm wall thickness; hydrolysis-stabilised; with special UV stabilizers; with release agent; good wear resistance; Application; Sports shoe soles; Hoses, non-reinforced; Profiles

ISO Shortname

Property	Test Condition	Unit	Standard	Value		
				drying	annealed	-
				according to specifications		
Mechanical properties (23 °C/50 % r. h.)						
C shore hardness, method A		-	ISO 868		96	
C shore hardness, method D		-	ISO 868		43	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		59	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		425	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		12	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		34	
C Compression set	24 h; 70 °C	%	ISO 815		52	
C Compression set	72 h; 23 °C	%	ISO 815		22	
C Abrasion resistance		mm³	ISO 4649		20	
Impact resilience		%	ISO 4662		25	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		112	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		1180	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		69	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		33	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1218
Molding conditions						
Injection molding-Melt temperature		°C	-	215 - 235		
Injection molding-Mold temperature		°C	-			20 - 40
Extrusion-Melt temperature		°C	-	190 - 210		

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.