

Technical Data

Product Description

ALCOM® LDDC PC 1000 UV BK1044-20	<p>Base Polymer Polycarbonate</p> <p>Filler/Additive System special filler</p> <p>Special Features good flow, processing stabilised, UV stabilised, injection moulding grade, translucent, light scattering</p> <p>Market Segment Automotive, Lighting</p> <p>Application Area lighting, light transparent components, Black Panel-Technology</p> <p>Typical Applications lamp covers, display elements, operating elements</p>
Generic PC - Unspecified	<p>This data represents typical values that have been calculated from all products classified as: Generic PC - Unspecified</p> <p>This information is provided for comparative purposes only.</p>

General	ALCOM® LDDC PC 1000 UV BK1044-20	Generic PC - Unspecified
Manufacturer / Supplier	<ul style="list-style-type: none"> MOCOM Compounds GmbH & Co. KG 	<ul style="list-style-type: none"> Generic
Generic Symbol	<ul style="list-style-type: none"> PC 	<ul style="list-style-type: none"> PC
Material Status	<ul style="list-style-type: none"> Commercial: Active 	<ul style="list-style-type: none"> Commercial: Active
Search for UL Yellow Card	<ul style="list-style-type: none"> MOCOM Compounds GmbH & Co. KG ALCOM® 	--
Availability	<ul style="list-style-type: none"> Asia Pacific Europe North America 	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific Europe Latin America North America
Filler / Reinforcement	<ul style="list-style-type: none"> Filler 	<ul style="list-style-type: none"> Filler
Additive	<ul style="list-style-type: none"> Processing Aid UV Stabilizer 	--
Features	<ul style="list-style-type: none"> Good Flow Good Light Diffusion UV Stabilized 	--
Uses	<ul style="list-style-type: none"> Automotive Applications Displays Lighting Applications 	--
Appearance	<ul style="list-style-type: none"> Translucent 	--
Processing Method	<ul style="list-style-type: none"> Injection Molding 	--



Physical	ALCOM® LDDC PC 1000 UV BK1044-20	Generic PC - Unspecified	Unit	Test Method
Density	1.19	1.19 to 1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	20	14 to 25	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
--	--	0.69 to 0.76	%	
24 hr	0.60 to 0.90	--	%	
Mechanical	ALCOM® LDDC PC 1000 UV BK1044-20	Generic PC - Unspecified	Unit	Test Method
Tensile Modulus	2400	2390 to 2490	MPa	ISO 527-1
Tensile Stress				ISO 527-2
Yield	66.0	66.0 to 66.6	MPa	
--	--	65.5 to 66.0	MPa	
Tensile Strain				ISO 527-2
Yield	6.0	5.9 to 7.5	%	
Break	60	70 to 72	%	
Flexural Modulus	2450	2340 to 2520	MPa	ISO 178
Flexural Stress				ISO 178
3.5% Strain	76.0	--	MPa	
--	--	75.3 to 100	MPa	
Impact	ALCOM® LDDC PC 1000 UV BK1044-20	Generic PC - Unspecified	Unit	Test Method
Charpy Notched Impact Strength				
--	--	9.6 to 12	kJ/m ²	ISO 179
-40°C	10	--	kJ/m ²	ISO 179/1eA
23°C	10	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				
--	--	45 to 48	kJ/m ²	ISO 179
-40°C	No Break	--		ISO 179/1eU
23°C	No Break	--		ISO 179/1eU
Thermal	ALCOM® LDDC PC 1000 UV BK1044-20	Generic PC - Unspecified	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/A
1.8 MPa, Unannealed	124	124	°C	
Vicat Softening Temperature				
--	142	--	°C	ISO 306/B50
--	--	142	°C	ISO 306
Flammability	ALCOM® LDDC PC 1000 UV BK1044-20	Generic PC - Unspecified	Unit	Test Method
Glow Wire Flammability Index	--	850 to 960	°C	IEC 60695-2-12



Optical	ALCOM® LDDC PC 1000 UV BK1044-20	Generic PC - Unspecified	Unit	Test Method
Light Transmittance				
Total ²	25.0	--	%	ISO 13468
Total ³	7.5	--	%	ISO 13468
--	--	3.3 to 91.0	%	ASTM D1003
Haze				
-- ²	9.50	--	%	ISO 13468
-- ³	16.0	--	%	ISO 13468
--	--	93.9 to 96.2	%	ASTM D1003
Injection	ALCOM® LDDC PC 1000 UV BK1044-20	Generic PC - Unspecified	Unit	
Drying Temperature				
--	--	120	°C	
Circulation Dryer	120	--	°C	
Desiccant Dryer	120	--	°C	
Drying Time				
--	--	2.9 to 8.0	hr	
Circulation Dryer	4.0 to 12	--	hr	
Desiccant Dryer	2.0 to 4.0	--	hr	
Suggested Max Moisture	0.020	0.019 to 0.021	%	
Processing (Melt) Temp	270 to 310	290 to 291	°C	
Mold Temperature	80 to 110	95 to 96	°C	

Injection Notes

Generic
PC - Unspecified

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Notes

¹ Typical properties: these are not to be construed as specifications.

² T(Y) (d=1mm, A, 2°)

³ T(Y) (d=2mm, A, 2°)

