SABIC Innovative Plastics"



Lexan* Resin DMX2415

Asia Pacific: COMMERCIAL

Lexan* DMX2415 is a polycarbonate resin with improved scratch resistance. Lexan* DMX2415 is available in transparent, translucent, and opaque colors.

TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	74	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	62	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	7	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	65.8	%	ASTM D 638
Tensile Modulus, 5 mm/min	3010	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	120	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2610	MPa	ASTM D 790
Hardness, Rockwell L	108	-	ASTM D 785
Hardness, Rockwell M	93	-	ASTM D 785
Taber Abrasion, CS-17, 1 kg	10	mg/1000cy	ASTM D 1044
Taber Abrasion, CS-17, 1 kg	10	mg/1000cy	GE Method
Tensile Stress, yield, 50 mm/min	78	MPa	ISO 527
Tensile Stress, break, 50 mm/min	60	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	7.4	%	ISO 527
Tensile Strain, break, 50 mm/min	47.7	%	ISO 527
Tensile Modulus, 1 mm/min	2490	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	109	MPa	ISO 178
Flexural Modulus, 2 mm/min	2540	MPa	ISO 178
Hardness, H358/30	128	MPa	ISO 2039-1
Pencil Hardness test, 1kgf	Н	-	ASTM D 3363
Erichson scratch depth, 6N	14	micrometer	GE Method
IMPACT			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812

Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.
All properties, expect the melt volume rate are measured on injection moulded samples.
All samples are prepared according to ISO 294.

2) Only typical data for material selection purpose.Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
4) Own measurement according to UL.

Source, GMD, Last Update:12/08/2006

Source, GWD, Last update: 20/8/2006 PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA DISCLAIMER : THE MATERIALS AND PRODUCTS OF THE BUSINESSES MAKING UP THE GE PLASTICS UNIT OF GENERAL ELECTRIC COMPANY, ITS SUBSIDIARIES AND AFFILIATES ("GEP"), ARE SOLD SUB_LECT TO GEP'S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ODER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, GEP MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (I) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (I) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESION INCORPORATING GEP MATERIALS, PRODUCTS, RECOMMENDATIONS OR ADVICE: EXCEPT AS PRODUCTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OF SALE, GEP AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS OR PRODUCTS DESCRIBED HEREIN, SALE SOR PRODUCTS DESCRIBED, SALE SALE SOR PRODUCTS DESCRIBED HEREIN, SALE

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TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
ІМРАСТ			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	20	J/m	ASTM D 256
Izod Impact, notched, -30°C	12	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	19	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	3	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	9	kJ/m²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	NB	kJ/m²	ISO 179/1eU
THERMAL			
Vicat Softening Temp, Rate B/50	137	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	133	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	119	°C	ASTM D 648
CTE, -40°C to 95°C, flow	7.E-05	1/°C	ASTM E 831
CTE, -40°C to 95°C, xflow	7.E-05	1/°C	ASTM E 831
Specific Heat	1.2	J/g-°C	ASTM C 351
Thermal Conductivity	0.2	W/m-°C	ASTM C 177
Thermal Conductivity	0.2	W/m-°C	ISO 8302
CTE, 23°C to 80°C, flow	7.E-05	1/°C	ISO 11359-2
CTE, 23°C to 80°C, xflow	7.E-05	1/°C	ISO 11359-2
Ball Pressure Test, 125°C +/- 2°C	PASSES	-	IEC 60695-10-2
Ball Pressure Test, approximate maximum	140	°C	IEC 60695-10-2
Vicat Softening Temp, Rate B/50	137	°C	ISO 306
Vicat Softening Temp, Rate B/120	139	°C	ISO 306
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	131	°C	ISO 75/Be
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	116	°C	ISO 75/Ae
PHYSICAL			
Specific Gravity	1.2	-	ASTM D 792
Specific Volume	0.85	cm³/g	ASTM D 792
Density	1.17	g/cm ³	ASTM D 792
Water Absorption, 24 hours	0.08	%	ASTM D 570
Water Absorption, equilibrium, 23C	0.28	%	ASTM D 570
Water Absorption, 50% RH, equilib	0.13	%	ASTM D 570
Moisture Absorption, 50% RH, 24 hrs	0.04	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	0.5 - 0.7	%	GE Method
Melt Flow Rate, 300°C/1.2 kgf	13.5	g/10 min	ASTM D 1238
Density values only. Variations within normal tolerances are possible for variose measured at least after 48 hours storage at 230C/50% relative humidity. All properties, expect the melt volume rate are measured on injection moulded samp All samples are prepared according to ISO 294.	colours.All 1alb2s are 2) Only typical da 3) This rating is n les. 4) Own measured	ta for mater g/seection purpose.Not to b to intended to reflect hazards presented ment according to UL.	be used for part or to Sec. 1.183 by this or any other material under actual fire conditions.

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
THERMAL			
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	131	°C	ISO 75/Be
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	116	°C	ISO 75/Ae
PHYSICAL			
Specific Gravity	1.2	-	ASTM D 792
Specific Volume	0.85	cm³/g	ASTM D 792
Density	1.17	g/cm³	ASTM D 792
Water Absorption, 24 hours	0.08	%	ASTM D 570
Water Absorption, equilibrium, 23C	0.28	%	ASTM D 570
Water Absorption, 50% RH, equilib	0.13	%	ASTM D 570
Moisture Absorption, 50% RH, 24 hrs	0.04	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	0.5 - 0.7	%	GE Method
Melt Flow Rate, 300°C/1.2 kgf	13.5	g/10 min	ASTM D 1238
Density	1.17	g/cm³	ISO 1183

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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	120	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	48	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	280 - 300	°C
Nozzle Temperature	270 - 290	°C
Front - Zone 3 Temperature	280 - 300	°C
Middle - Zone 2 Temperature	270 - 290	°C
Rear - Zone 1 Temperature	260 - 280	°C
Hopper Temperature	60 - 80	°C
Mold Temperature	80 - 100	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	40 - 70	rpm
Shot to Cylinder Size	40 - 60	%
Vent Depth	0.025 - 0.076	mm

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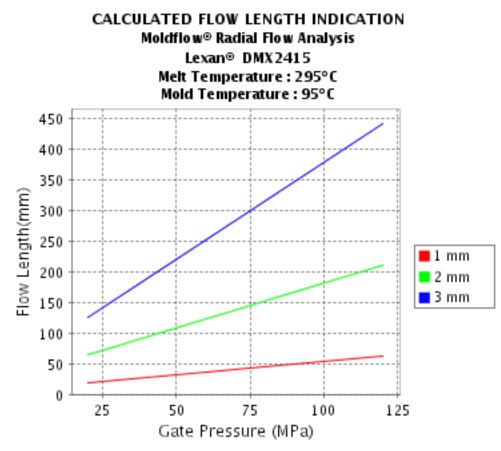
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Note: Technical support is recommended if Gate Pressure is greater than 80 MPa. Contact your local representative.

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