EXTEM™ RESIN XH2315

REGION ASIA

DESCRIPTION

Extem XH2315 Resin. Also UL rating V094 at 0.75 and V0,5VA at 1.0 and 1.5-1.65

TYPICAL PROPERTY VALUES

Revision 20190925

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	156	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	156	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3	%	ASTM D 638
Tensile Modulus, 5 mm/min	10230	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	206	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	8960	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	147	MPa	ISO 527
Tensile Stress, break, 5 mm/min	147	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2	%	ISO 527
Tensile Strain, break, 5 mm/min	2	%	ISO 527
Tensile Modulus, 1 mm/min	10530	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	200	MPa	ISO 178
Flexural Modulus, 2 mm/min	9000	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	86	J/m	ASTM D 256
Izod Impact, Reverse Notched, 3.2 mm	320	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	8	J	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	24	kJ/m²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate B/50	267	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	257	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	254	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	255	°C	ASTM D 648
CTE, 23°C to 150°C, flow	1.6E-05	1/°C	ASTM E 831
CTE, 23°C to 150°C, xflow	5.3E-05	1/°C	ASTM E 831
Relative Temp Index, Elec [1]	105	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	105	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	105	°C	UL 746B
PHYSICAL			
Specific Gravity	1.52	-	ASTM D 792
Water Absorption, 23°C/48hrs	0.59	%	ASTM D 570
Melt Flow Rate, 367°C/6.6 kgf	4	g/10 min	ASTM D 1238

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.52	g/cm³	ISO 1183
ELECTRICAL			
Comparative Tracking Index (UL) {PLC}	4	PLC Code	UL 746A
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E121562-100988559	-	-
UL Recognized, 94-5VA Flame Class Rating	≥1	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating	≥0.4	mm	UL 94
INJECTION MOLDING			
Drying Temperature	175	°C	
Drying Time	4 – 6	hrs	
Drying Time (Cumulative)	24	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	380 – 405	°C	
Nozzle Temperature	375 – 400	°C	
Front - Zone 3 Temperature	380 – 405	°C	
Middle - Zone 2 Temperature	370 – 395	°C	
Rear - Zone 1 Temperature	360 – 380	°C	
Mold Temperature	150 – 175	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	70 – 100	rpm	
Shot to Cylinder Size	40 – 70	%	
Vent Depth	0.025 – 0.076	mm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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