NORYL PPX™ RESIN PPX7115

REGION AMERICAS

DESCRIPTION

NORYL PPX™ 7115 resin is a non-reinforced alloy of polyphenylene ether (PPE) + polypropylene (PP). This injection moldable grade exhibits high modulus, high-temperature performance, excellent melt strength, impact resistance, hydrolytic and dimensional stability. NORYL PPX7115 resin is an excellent candidate for applications requiring high modulus and chemical resistance.

TYPICAL PROPERTY VALUES

Revision 20190925

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	35	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	34	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	8	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	125	%	ASTM D 638
Tensile Modulus, 50 mm/min	1240	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	51	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1370	MPa	ASTM D 790
Tensile Stress, yield, 50 mm/min	35	MPa	ISO 527
Tensile Strain, break, 50 mm/min	75	%	ISO 527
Tensile Modulus, 1 mm/min	1370	MPa	ISO 527
IMPACT			
Izod Impact, notched, 23°C	534	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	37	J	ASTM D 3763
Instrumented Impact Total Energy, -30°C	30	J	ASTM D 3763
THERMAL			
Vicat Softening Temp, Rate B/50	86	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	112	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	85	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.62E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	9.72E-05	1/°C	ASTM E 831
Vicat Softening Temp, Rate A/50	131	°C	ISO 306
PHYSICAL			
Specific Gravity	0.99	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.6 – 0.7	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.6 – 0.8	%	SABIC method
Melt Flow Rate, 260°C/5.0 kgf	14	g/10 min	ASTM D 1238
Melt Volume Rate, MVR at 260°C/5.0 kg	12	cm³/10 min	ISO 1133
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E121562-221243	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	60 – 65	°C	
Drying Time	2 – 4	hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time (Cumulative)	8	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	260 – 290	°C	
Nozzle Temperature	260 – 290	°C	
Front - Zone 3 Temperature	250 – 290	°C	
Middle - Zone 2 Temperature	240 – 280	°C	
Rear - Zone 1 Temperature	225 – 275	°C	
Mold Temperature	30 – 50	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	20 – 100	rpm	
Shot to Cylinder Size	30 – 70	%	
Vent Depth	0.038 – 0.051	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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