

## Noryl\* Resin PX4058

Americas: COMMERCIAL

PPO, polyolefin blend. Improved chemical resistance. 253F (125C) HDT.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 50 mm/min	44	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	114	%	ASTM D 638
Flexural Stress, yld, 2.6 mm/min, 100 mm span	64	MPa	ASTM D 790
Flexural Modulus, 2.6 mm/min, 100 mm span	1790	MPa	ASTM D 790
Hardness, Rockwell R	96	-	ASTM D 785
Taber Abrasion, CS-17, 1 kg	8	mg/1000cy	ASTM D 1044
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	1981	J/m	ASTM D 4812
Izod Impact, unnotched, -30°C	267	J/m	ASTM D 4812
Izod Impact, notched, 23°C	480	J/m	ASTM D 256
Izod Impact, notched, -40°C	149	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	2	J	ASTM D 3763
Instrumented Impact Energy @ peak, -30	2	J	ASTM D 3763
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 6.4 mm, unannealed	140	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	122	°C	ASTM D 648
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.06	-	ASTM D 792
Water Absorption, 24 hours	0.07	%	ASTM D 570

Source GMD, last updated:01/05/2000

### Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	95 - 100	°C
Drying Time	3 - 4	hrs
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	70 - 95	°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

Source GMD, last updated:01/05/2000

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. 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) Internal measurements according to UL standards.

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