

DEXPRO® 520
DESCRIPTION:

DEXPRO® 520 is a 20% mineral filled impact modified polypropylene for injection molding processes. This product can be supplied in natural or pre-colored, with or without UV protection.

NOMINAL PROPERTIES:

PROPERTY	TYPICAL VALUE	UNITS	TEST METHODS
PHYSICAL			
Mineral Filler	20	%	
Specific Gravity	1.04	—	ISO 1183
Melt Flow Rate, 230°C / 2.16 kg	28	dg/min	ISO 1133
MECHANICAL			
Tensile Stress at Yield	29	MPa	ISO 527-1, 50mm/min
Tensile Elongation at Yield	< 10	%	ISO 527-1, 50mm/min
Tensile Elongation at Break	-	%	ISO 527-1, 50mm/min
Flexural Modulus, +23°C (4mm thickness)	2,400	MPa	ISO 178, 2 mm/min
THERMAL			
DTUL, Heat Distortion Temperature			
0.45 MPa applied stress, un-annealed	120	°C	ISO 75
1.8 MPa applied stress, un-annealed	70	°C	ISO 75
Flammability (FMVSS 302)	< 100	mm/min	ISO 3795 / SAE J369
IMPACT			
Multi-Axial Instrumented Impact			
at +23°C, 6.7 m/s (15 mph)	5	J at max load	ASTM D 3763
Notched Izod Impact, at +23°C	50	J/m	ASTM D 256 A
Notched Izod Impact, at +23°C	3	kJ/m ²	ISO 180/1eA
MOLD SHRINKAGE			
As Molded	1.1 +/- 0.2	%	ISO 294-4
After Bake, 48hrs / 80°C	1.4 +/- 0.2	%	ISO 294-4

Mold shrinkage is measured on laboratory injection molded flat plaque, 150 x 100 x 3.2 mm, and is not necessarily representative of actual field data. The part wall thickness, gate type and location, flow length and paint oven temperature affect final part dimensions. Please contact your Solvay Engineered Polymers representative before any tools are cut.

Tests are made in accordance with the current issue of the ISO, ASTM, or other cited test methods. Test data reported here are nominal values measured on injection molded plaques and test bars.

Drying:

Pellet drying is generally unnecessary for DEXPRO® engineered polyolefin materials. However, drying may help to improve the aesthetic appearance by removing surface moisture. Drying with dehumidified air (-20°C dew point or lower) at 50-80°C for 2 to 6 hours is generally sufficient to remove any residual moisture to below 0.05 wt%.

For further information, please contact Solvay Engineered Polymers.

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