

# PEBAX® X2118

Experimental Polyether block amide PEBAX® X2118 is a thermoplastic elastomer made of flexible polyether and rigid polyamide and combines softness and unique mechanical performance with pleasant touch feeling and excellent abrasion resistance. This grade has been developed to be heat and UV resistant.

Note that this document is a temporary technical data sheet.

## MAIN CHARACTERISTICS

Property	Typical Value	Unit	Test Method
Density	0.99	g/cm <sup>3</sup>	ISO 1183
Melting Point	145	°C	ISO 11357
Vicat softening point (under 10N)	49	°C	ISO 306
Shrinkage (after 24 h, 2 mm, mold at 30°C) // ⊥	1.0 1.0	% %	Internal method
Hardness (*) Instantaneous After 15 s	75 74	Shore A Shore A	ISO 868
Tensile Test (*) Tensile modulus Stress at 25 % elongation Stress at 50 % elongation Stress at 100 % elongation Stress at Break Strain at Break	10.4 1.8 2.6 3.2 45 >600	MPa MPa MPa MPa MPa %	ISO 527
Taber abrasion loss 1000 rev, 1kg, H18 wheel 1000 rev, 1kg, CS10 wheel	52 19	mg mg	ISO 9352
Tear strength (*)	38	kN/m	ISO 34-1
Compression set (*) Compression set at 23°C (25% strain, 70 hours) Compression set at 70°C (25% strain, 22 hours)	32 80	% %	ISO 815

(\*) Samples conditioned 15 days at 23°C - 50 % R.H.

## MAIN APPLICATIONS

- Wearable devices
- Casing for electronics

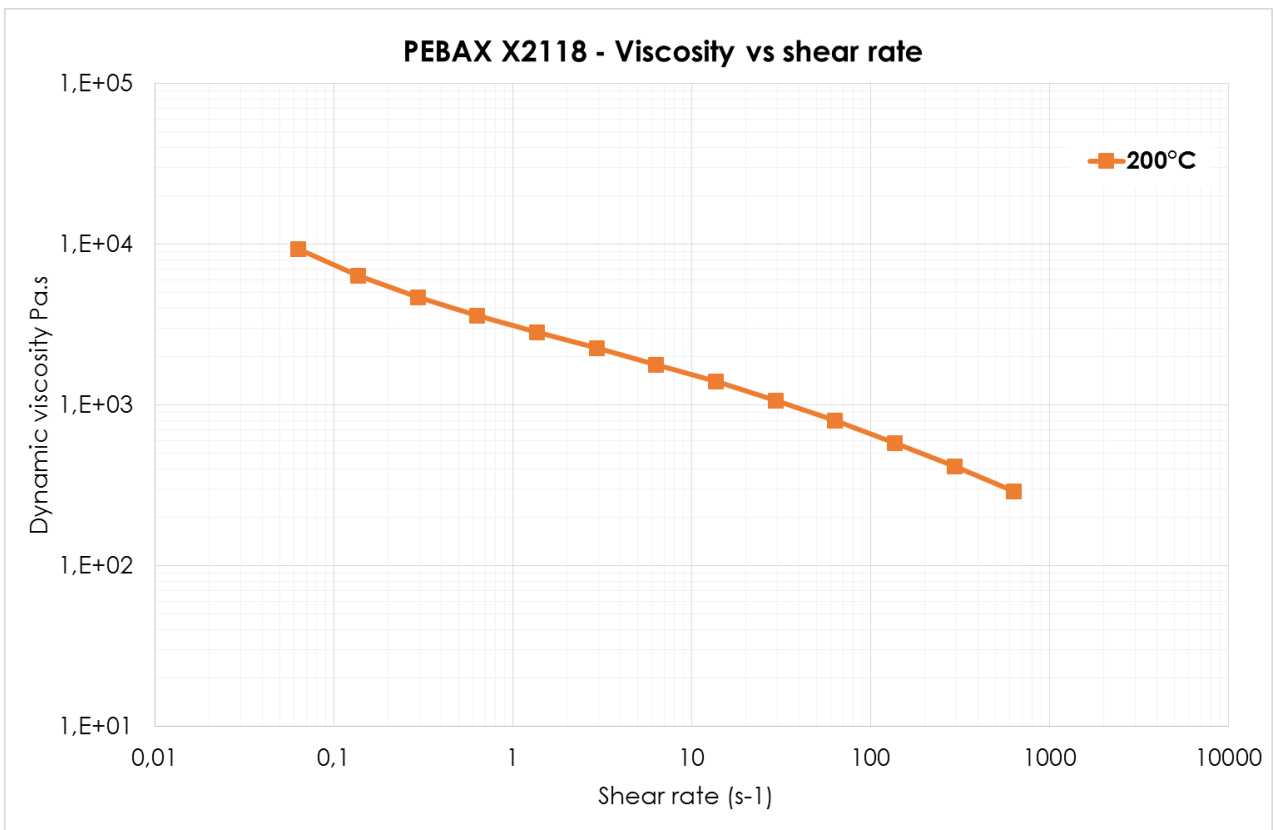
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- Soft touch overmolding parts

## PROCESSING CONDITIONS

Conditions	Typical values
<b>Injection</b> Melt Temperature (Min / Recommended / Max)	180°C / 210°C / 220°C
<b>Mold</b> Temperature	10 – 30°C

<b>Drying (only necessary for bags opened for more than two hours)</b> Time Temperature	4 - 8 hours 55 - 65°C
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