

Description

UR 3560 is a semi-rigid polyurea casting system formulated to provide the user with very good abrasion and impact resistance properties. Recommended for use in the production of parts and tooling requiring the unique balance of wear resistance, thin rib stability and resistance to tear propagation that this product offers. Does not contain TDI, MOCA, MDA or IPDI for a safer work environment. The product is available in amber, red and black

Applications

- Foundry tooling
- Core boxes
- Wear-resistant tooling
- Assembly fixtures

Properties

- Excellent impact resistance
- Very good tear resistance
- Fast setting
- Long pot life
- Good abrasion resistance

Physical Properties

		UR 3560 Iso	UR 3560 Polyol	Mixed
Composition		Isocyanate	Polyol	
Mix Ratio, by weight		100	40	
By volume		100	40	
Appearance		Liquid	Liquid	Liquid
Color		Colorless	Amber, red, black	Amber, red, black
Viscosity @ 77°F (25°C) (cps)	Brookfield LVT	4,000	300	2,500
Density @ 77°F (25°C) (lbs./gal.)	ISO 1675:1985	8.65	8.85	8.70
(g/cc)		1.04	1.06	1.04
Pot life @ 77°F (25°C) 140g (min)	Gel timer			15 – 20

PROCESSING

Both parts (polyol and isocyanate) have to be mixed at a temperature equal or higher than 64°F (18°C). Part A may be warmed to reduce the viscosity, however, this will shorten the pot life. Before casting, make sure that parts or molds are free of any trace of moisture.

Cured Properties at 74°F (23°C)¹			
Hardness	ASTM D-2240	Shore D	60
Flexural Strength	ASTM D-790	psi (MPa)	2,200 (15)
Flexural Modulus	ASTM D-790	psi (MPa)	36,700 (253)
Elongation at break	ASTM D-638	%	220
Tear strength	ASTM D-624	pli (kN/m)	418 (73)
Linear shrinkage (specimen size 10 in. x 0.56 in. round (250 mm x 14 mm round))	ASTM D-955	%	0.6
Maximum recommended casting thickness		in. (mm)	1 (25)
Demolding time • At 74°F (23°C)		Hours	8

¹Average values on laboratory prepared test samples, cured 14 hours at 158°F (70°C).

Storage Conditions

This product has a shelf life of 6 months as indicated by the expiration date on the container when stored in original unopened containers between 59 – 77°F (15 – 25°C). Any opened container must be tightly closed.

Handling Precautions

Normal health and safety precautions should be observed when handling these products :

- Ensure good ventilation
- Wear impervious clothing
- Wear gloves, and safety glasses

For further information, please consult the material safety data sheet.

Guarantee

The information contained in this technical data sheet results from research and tests conducted in our Laboratories under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON guarantees the conformity of their products with their specifications but cannot guarantee the compatibility of a product with any particular application. AXSON disclaims all responsibility for damage from any incident which results from the use of these products. The responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications.