Technical Data Sheet
DIEPAL S-20-V

Characteristics:
Our styrene-free DIEPAL S-20-V is a medium-viscous, medium-reactive unsaturated polyester resin based on isophthalic acid and neopentyl glycol dissolved in vinyl toluene, which after curing produces products with good thermal and mechanical properties and is suitable for almost all common processing methods.

Application:
DIEPAL S-20-V is particularly suitable for the production of molded parts where increased demands are placed on chemical and thermal resistance.

Processing:
DIEPAL S-20-V should be processed at room temperature (15 – 25 °C). Lower processing temperatures have a negative impact on curing.

Features in delivery condition:

Feature	Area	Unit
Acid number	max. 20	mg KOH/g
non-volatile fraction	50 – 54	%
Viscosity, 23°C	300 – 360	mPas
Density	1,1	g/cm3
Color number, Iod	3	-
Refractive index, 20°C	1,534 – 1,538	
Gel time from 23°C – 35°C	25 – 35	min
Curing time of 23°C - Tmax	32 – 60	min
Tmax	170 – 210	°C
Flash point	53	°C
Shelf life, 20°C	3	Months

Remarks:
Reactivity measurements: 2% MEKP hardener DD-MP1

Properties in the hardened state without fillers (guideline values):

Feature	Area	Unit
Flexural strength	110	N/mm²
Bending modulus of elasticity	3000	N/mm²
Edge Fiber Elongation	3,2	%
Tensile strength	65	N/mm²
Train modulus	3200	N/mm²
Elongation at break	3,0	%
Heat Resistance (HDT)	91	°C

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As of 11/2022

Transport:

The transport must be protected from direct moisture and the effect of heat.

Storage:

Storage must not exceed 25°C in cool rooms, protected from moisture and local overheating.

Work Equipment Cleaning

Hardened resins can only be cleaned mechanically, such as by grinding! Acetone can be used to remove non-hardened resin residues from the tool, which must then air out sufficiently to prevent the cleaner from entering new containers!

Precautions

When processing, the information in the safety data sheet must be observed!

More information

If you have any further questions, for example about the processing or the product, please do not hesitate to contact us by phone.

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