

Dow VORALUX™ HL 430 Copolymer Polyol

Category : Polymer , Thermoset

Material Notes:

VORALUX™ HL 430 is a unique grafted polyether polyol containing copolymerized styrene and acrylonitrile and filtered to 100 microns. It is used in the manufacture of flexible slabstock polyurethane foams and is manufactured without BHT and processes well on most types of foam machinery. VORALUX™ HL 430 is most commonly used in the full density range of high-load bearing flexible foams used in carpet underlay and packaging. It can be used as the sole polyol, or may be blended with conventional polyether slabstock polyols to produce high-load bearing foams over the density range 1.2 - 4.5 lb/ft³. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-VORALUX-HL-430-Copolymer-Polyol.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.042 g/cc	1.042 g/cc	
Density	1.042 g/cc	0.03764 lb/in ³	
Solids Content	43 %	43 %	
Viscosity	450 cP	450 cP	
	@Temperature 98.9 °C	@Temperature 210 °F	
	1090 cP	1090 cP	
	@Temperature 65.6 °C	@Temperature 150 °F	
	3560 cP	3560 cP	
	@Temperature 37.8 °C	@Temperature 100 °F	
	5500 - 8000 cP	5500 - 8000 cP	
	@Temperature 77.0 °C	@Temperature 171 °F	
	7250 cP	7250 cP	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Maximum Moisture Content	0.080	0.080	
Vapor Pressure	<= 0.0000133 bar	<= 0.0100 torr	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.85 J/g-°C	0.442 BTU/lb-°F	
	@Temperature 40.0 °C	@Temperature 104 °F	
	1.90 J/g-°C	0.454 BTU/lb-°F	
	@Temperature 60.0 °C	@Temperature 140 °F	

Thermal Properties	Metric ^g -°C	English ^{TU} /lb-°F	Comments
	@Temperature 100 °C	@Temperature 212 °F	
Thermal Conductivity	0.161 W/m-K	1.12 BTU-in/hr-ft²-°F	
	0.159 W/m-K	1.10 BTU-in/hr-ft²-°F	
	@Temperature 100 °C	@Temperature 212 °F	
	0.160 W/m-K	1.11 BTU-in/hr-ft²-°F	
	@Temperature 50.0 °C	@Temperature 122 °F	
Flash Point	169 °C	336 °F	PMCC

Descriptive Properties	Value	Comments
Hydroxyl Number mg KOH/g	29.3 - 32.8	

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