

Thermec™ 4301R35H

Polyphthalamide
Technical Polymers, LLC

Message:

Thermec™4301R35H is a polyxylyene amide (PPA) material, which contains a 35% glass fiber reinforced material. This product is available in North America and is processed by injection molding.

Thermec™The main features of 4301R35H are:

flame retardant/rated flame

heat stabilizer

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	207	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.5	%	ASTM D638
Flexural Modulus (23°C)	10300	MPa	ASTM D790
Flexural Strength (23°C)	303	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	274	°C	ASTM D648
Melting Temperature	288	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information			
Tensile Elongation, ASTM D638: 2 to 3%Volum Resistivity, ASTM D257: > 1e15 ohm-cm			
Injection	Nominal Value	Unit	
Drying Temperature	98.9 - 107	°C	
Drying Time	4.0 - 6.0	hr	
Processing (Melt) Temp	321 - 332	°C	
Mold Temperature	135 - 163	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.103 - 0.689	MPa	

Screw Speed	50 - 100	rpm
Clamp Tonnage	4.1 - 6.9	kN/cm ²
Cushion	3.18 - 12.7	mm
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.0:1.0 to 2.5:1.0	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

