

DynaChar™ 3522

Polyolefin

Polymer Dynamix

Message:

- Flame Retardant TPO
- Features:
 - Excellent Chemical Resistance
 - Low Temperature Properties
- Good Processability
- Applications:
 - Wire & Cable
 - Industrial
 - Automotive

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Processability		
	Low Temperature Impact Resistance		
	Low Temperature Strength		
	Low Temperature Toughness		
Uses	Automotive Applications		
	Industrial Applications		
	Wire & Cable Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	30		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	138	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	11.7	MPa	ASTM D412
Tensile Elongation (Break)	> 500	%	ASTM D412
Electrical	Nominal Value		Test Method
Dielectric Constant	2.40		ASTM D1531
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	V-0		Internal Method

Injection	Nominal Value	Unit
Drying Temperature	65.6 to 76.7	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	182 to 193	°C
Middle Temperature	191 to 202	°C
Front Temperature	199 to 210	°C
Nozzle Temperature	199 to 210	°C
Processing (Melt) Temp	199 to 210	°C
Mold Temperature	10.0 to 37.8	°C
Injection Pressure	68.9 to 138	MPa
Injection Rate	Moderate	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Clamp Tonnage	5.5 to 8.3	kN/cm ²

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